



Everhard Industries Pty Ltd

PRODUCT APPRAISAL REPORT 2306

Ductile Iron Access Covers

AS 3996:2019 Access covers and grates

Published: 11 December 2023

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Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	11 December 2023
WSAA Expert Panel	WSAA	11 December 2023
Peter Pittard, WSAA Consultant	WSAA	25 November 2023
Carl Radford, Product Appraisal Manager	WSAA	11 December 2023

Overview of WSAA

The Water Services Association of Australia (WSAA) is the peak industry body representing the urban water industry. Our members provide water and sewerage services to over 20 million customers in Australia and New Zealand and many of Australia's largest industrial and commercial enterprises.

Based around our vision of 'customer driven, enriching life', WSAA facilitates collaboration, knowledge sharing, networking and cooperation within the urban water industry. We are proud of the collegiate attitude of our members which has led to industry-wide approaches to national water issues.

WSAA can demonstrate success in the standardisation of industry performance monitoring and benchmarking, as well as many research outcomes of national significance. The WSAA Executive retains strong links with policy makers and legislative bodies and their influencers, to monitor emerging issues of importance to the urban water industry.

WSAA was formed in 1995 as a non-profit organisation to foster the exchange of information between industry, government and the community, and to promote sustainable water resource management.

The urban water industry is committed to anchoring its services to customers' values, and to enrich communities where water services have broad economic, environmental and social values. In line with this our main activities focus on four areas:

1. influencing national and state policies on the provision of urban water services and sustainable water resource management
2. promoting debate on environmentally sustainable development and management of water resources and the community health requirements of public water supplies
3. improving industry performance and establishing benchmarks and industry leading practices for water service processes; and
4. fostering the exchange of information on education, training, research, water and wastewater management and treatment and other matters of common interest.

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1 EXECUTIVE SUMMARY

Everhard Industries Pty Ltd is an Australian family-owned manufacturer of drainage, wastewater and environmental solutions for residential and commercial applications.

Hong Guang Handan Cast Foundry, located in Hebei China, manufacture access covers for Everhard.

This Appraisal is for Everhard DN 600 Class B and Class D solid top cast ductile iron circular access covers and frames manufactured in accordance with AS 3996:2019 *Access covers and grates* and intended for utilisation in sewer and storm water systems. See Section 4 for details.

The solid top access covers have a skid resistant raised pattern.

The Class D access covers incorporate two Grade 316 stainless steel lock pins and M8 cap screws, located within the two lifting keyholes, to provide uplift resistance to traffic.

The keyholes provided on each cover are compatible with the industry standard key lifter.

Everhard Industries Pty Ltd and Hong Guang Handan Cast Foundry both hold ISO 9001:2015 Quality Management System Licences.

The Everhard access covers have ISO Type 5 StandardsMark product certification to AS 3996:2019.

This Appraisal has determined that Everhard Access Covers and Frames as detailed in Section 4, comply with the requirements of WSA PS 290 *Ductile Iron Access Covers and Frames for Drinking Water, Non-drinking Water Supply and Sewerage to AS 3996* and are considered as 'fit for purpose'.

1.1 Recommendations

It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the Everhard Class B and Class D Access Covers and Frames, detailed in this report, for use in sewerage and storm water systems provided they are installed in accordance with WSAA Codes and manufacturer's requirements, where specified.

2 THE APPLICANT

The Applicant is Everhard Industries Pty Ltd.

2.1 The Supplier

Everhard Industries Pty Ltd is an Australian family-owned manufacturer of drainage, wastewater and environmental solutions for residential and commercial applications. The company commenced operations in Queensland in the 1920's and became well known for manufactured concrete products including laundry tubs, baths, septic tanks and pits. Product development led the business into polymer products in the 1970's and channels and grates in the 1980's. Everhard is committed to the water and waste water industry and now provides a vast range of products for drainage, wastewater, environmental, laundry, kitchen, bathroom and civil and commercial applications.

More information is available at: <https://www.everhard.com.au/>

2.2 The Manufacturer

The access covers are manufactured on behalf of Everhard by Hong Guang Handan Foundry Co Ltd located near Handan, Hebei Province, China.

The access covers and frames are cast, assembled, tested and painted at the Hong Guang Handan Foundry in accordance with Everhard designs and drawings.

Hong Guang was founded in 1998 and specialises in the manufacture of grey and ductile iron covers and grates. The company employs approximately 120 people and exports to Europe, North America and the Middle East as well as servicing the domestic Chinese market.

3 THE PRODUCT

This Appraisal is for Everhard DN 600 Class B and Class D solid top cast ductile iron circular access covers and frames manufactured in accordance with AS 3996:2019 *Access covers and grates* and intended for utilisation in sewer and storm water systems.

The solid top access covers have a skid resistant raised pattern on the lid and are coated with a bituminous paint.

Everhard access covers have two keyholes with dimensions in accordance with AS 3996 to ensure compatibility with industry standard key lifters.

For Class D access covers the lid is secured to the frame using two Grade 316 stainless steel lock pins and M8 cap screws, located within the two lifting keyholes, to provide uplift resistance to traffic. See Figure 1 for details of the locking arrangement

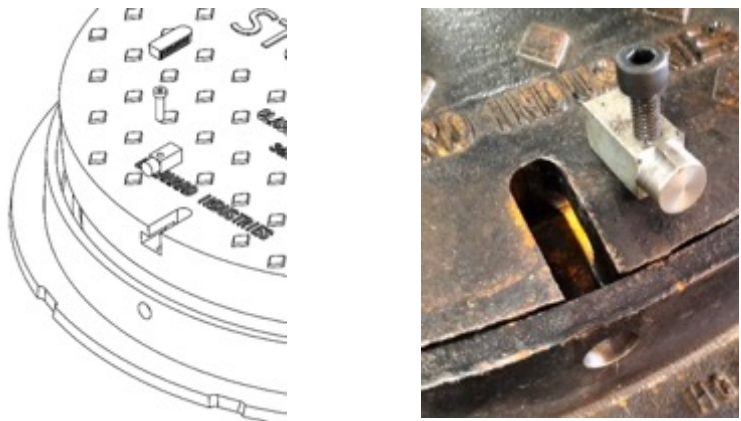


FIGURE 1 LOCKPIN ARRANGEMENT FOR CLASS D ACCESS COVERS

Plastic covers are fitted to the keyholes to prevent ingress of foreign materials.

See Section 4 for details of the Everhard covers and frames included in this Appraisal.

4 SCOPE OF THE APPRAISAL

This appraisal applies to DN 600 Class B and Class D solid top cast ductile iron circular access covers and frames as shown in Table 1 and included in the ISO Type 5 StandardsMark product certification schedule in Appendix B.

TABLE 1 EVERHARD DI ACCESS COVERS

Part Number	Shape	Clear Opening mm	Application	Class	Class D Fasteners
14806	Circular	620	SEWER	B	2 x M8
14807	Circular	620	STORM WATER	B	2 x M8
14808	Circular	610	SEWER	D	2 x M8
14809	Circular	610	STORM WATER	D	2 x M8

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts Class B and Class D solid top cast ductile iron circular access covers and frames manufactured in compliance with AS 3996:2019 *Access covers and grates* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Conformity Assessment Body (CAB) or by an international accreditation system recognised by JAS-ANZ.

The manufacturer is generally expected to have a production management and control system that has been duly accredited in accordance with AS/NZS ISO 9001 as a prerequisite to undergoing a product certification audit.

The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08.

5.2 Performance Requirements

The Everhard access covers and frames have been appraised for compliance with AS 3996:2019 *Access covers and grates*

Appraisal criteria are also determined by the WSAA Product Appraisal Technical Advisory Group and regularly reviewed to ensure that the criteria reflect the requirements of WSAA members.

The following Product Specification is relevant to this application:

WSA PS 290 *Ductile Iron Access Covers and Frames for Drinking Water, Non-drinking Water Supply and Sewerage to AS 3996*

A copy of the Product Specification is available at the following link:

<https://www.wsaa.asn.au/shop/product/60961>

6 COMPLIANCE WITH APPRAISAL CRITERIA

6.1 Compliance with Quality Assurance Requirements

Everhard has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. 4566-2700-01 issued to Everhard Industries Pty Ltd by Compass Assurance Services.
- ISO 9001:2015 Certificate of Registration No. FM 510540 issued to Hong Guang Handan Foundry Co Ltd by BSI.
- AS 3996:2019 ISO Type 5 StandardsMark Product Certification Licence No. SMK41379 issued to Everhard Industries Pty Ltd by SAI-Global.

Copies of the Quality Assurance and Product Certification licences have been included in Appendix B and are also available from WSAA.

6.2 Compliance with Performance Requirements

6.2.1 Load resistance

Type Test reports completed by Advanced Materials Testing Services in Brisbane (NATA Accreditation No 20414) have been submitted by Everhard to demonstrate compliance with the load performance requirements of Appendix C of AS 3996:2019 for Class B and Class D access covers.

The type test requirements are to ensure the cover and frame:

- a) Exhibits acceptable elastic deflection after application of the serviceability design load.

- b) Exhibits acceptable permanent set of the cover or grate, after five applications of the serviceability design load.
- c) Sustains the ultimate limit state design load for 30 seconds without structural failure.

All access covers successfully passed the type tests.

6.2.2 Sealing

Type test reports completed by Advanced Materials Testing Services have been submitted by Everhard to demonstrate compliance with the water tightness and gas tightness requirements of AS 3996:2019 for Class B and Class D access covers.

6.2.3 Slip resistance

A test was undertaken for each of the access covers by Independent Slip Testing Services (NATA Accreditation No. 114967) to demonstrate a minimum Class P4 rating in accordance with AS 4586, which complies with the requirements of AS 3996:2019.

6.2.4 Uplift resistance to dislodgement by traffic

AS 3996 requires that where a design feature is incorporated to prevent dislodgement by traffic a pull-out type test is required to be completed in accordance with Appendix J of AS 3996.

A pull-out test report undertaken by Advanced Materials Testing Services for the Class D access cover has been submitted by Everhard to demonstrate compliance to uplift resistance to dislodgement to traffic.

A test to demonstrate uplift resistance to pressure or flood has not been undertaken.

6.2.5 Dimensional

AS 3996:2019 requires the minimum depth of insertion for covers and frames in trafficable areas (Class D) to be 50mm.

WSA PS 290 requires that depth of insertion for Class B covers shall not be less 25mm with a fixing device.

WSA PS 290 specifies that the maximum gap between adjacent parts of multi-part covers and frames shall be 3mm.

The dimensions for Everhard covers and frames are shown in Table 2 and demonstrate compliance with the requirements as detailed above.

TABLE 2 COVER INSERTION DEPTH AND FRAME DEPTH

Part number	Clear opening mm	Class	Cover insertion depth mm	Frame depth mm	Maximum gap between cover and frame mm
14806 / 14807	620	B	40	74	2.5
14808 / 14809	610	D	61	72	2.5

6.2.6 Ductile iron

Everhard has submitted a material test report from Wuxi Hengyou Trading Company (CNAS Accreditation No. L0260) to verify compliance with the minimum ductile iron material requirements of Grade 500/10.

6.2.7 Sealing

UCC Manhole Sealing Grease, manufactured by Universal Corrosion Coatings, is applied to the surfaces of the cover and frame to facilitate a water and gas tight seal.

The design of the Class D access covers also incorporates a small EPDM seal located in a semi-circle housing moulded into frame to prevent the cover rocking on the frame.

6.2.8 Coating

The solid top covers and frames are coated with an Alkyd resin asphalt paint, supplied by Cangzhou Shuodi Paint Co Ltd, to a minimum average thickness of 50µm with an adhesion rating of not less than 2. A Safety Data Sheet has been supplied and is available from Everhard or WSAA.

6.2.9 Fasteners

Two M8 A4-70 (Grade 316) stainless steel cap screws are utilised to secure the lock pins to the cover.

6.2.10 Cover lifting system

Everhard access covers have two lifting keyholes in accordance with AS 3996:2019 to ensure compatibility with the industry standard key lifter.

Each keyhole is fitted with a removable plastic plug to prevent ingress of foreign debris.

6.2.11 Cover mass

The mass for each access cover is shown in Table 3.

TABLE 3 COVER MASS

Part number	Clear opening mm	Class	Mass of Cover kg
14806 / 14807	620	B	24
14808 / 14809	610	D	36

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Access covers and frames are commonly used industry items. Training requirements for their installation, application, repair and maintenance are therefore expected to be part of industry practice.

A copy of the Everhard Installation Instructions is attached in Appendix A.

8 PRODUCT MARKING

Everhard access covers have the following permanent markings on the surface of the cover which satisfies the requirements of AS 3996:2019:

- Manufacturers name: Everhard Industries
- Date of manufacture: e.g.dd-mm-yy.
- Number of the Standard: AS 3996:2019
- Load classification: Class B or Class D
- Mass of cover: xx kg
- DUCTILE
- SEALED
- SEWER or STORMWATER
- StandardsMark logo and licence number: SMK41379

9 PACKAGING AND TRANSPORTATION

Access cover and frame assemblies are typically delivered shrink wrapped on pallets in numbers appropriate to transport requirements and constraints.

10 PRODUCT WARRANTY

The products are covered by the normal commercial and legal requirements of the *Competition and Consumer Act 2010 (Cth)*, which covers manufacture to the relevant standard, and details of Everhard's warranty are included in their terms and conditions of sale.

11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT

These types of products are in common use within Australia.

12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW

No issues were raised.

13 FUTURE WORKS

No future works have been identified.

14 DISCLAIMER

This Product Appraisal Report (Report) is issued by the Water Services Association of Australia Limited on the understanding that:

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

To maintain the recommendations of this Report any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Report 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. Appraisal reports will be reviewed and reissued at regular intervals not exceeding five (5) years.

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

Any enquiries regarding this report should be directed to the Program Manager, Carl Radford, email carl.radford@wsaa.asn.au.

14.1 Issue of Report

This Report has been published and/or prepared by the Water Services Association of Australia Limited and nominated Project Manager and peer group of technical specialists (the Publishers).

The Report has been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Report (the Recipients).

By accepting this Report, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Report that the Recipient has understood and accepted the terms of this Disclaimer.

14.2 Limits on Reliance on Information and Recommendations

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The information and any recommendation contained (expressly or by implication) in this Report are provided in good faith (and subject to the limitations noted in this Report). 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 Report does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it (Product). The product appraisal criteria used in preparing this Report 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 Report, 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.

14.3 No Updating

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

14.4 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 Report, or the accuracy, completeness or reasonableness of any recommendation in this Report.

APPENDIX A – PRODUCT LITERATURE

EVERHARD
CIVIL AND COMMERCIAL

SPEC SHEET

Product Name:
Cast Iron Sewer/Stormwater Cover and Frame

EI Code:
 14806 - Cast Iron Sewer Cover and Frame - Class B
 14807 - Cast Iron Stormwater Cover and Frame - Class B
 14808 - Cast Iron Sewer Cover and Frame - Class D
 14809 - Cast Iron Stormwater Cover and Frame - Class D

Dimensions:
 14806 - 620mm D
 14807 - 620mm D
 14808 - 610mm D
 14809 - 610mm D

Weight:
 14806 - 38.5kg
 14807 - 38.5kg
 14808 - 62.5kg
 14809 - 62.5kg

Material:
Ductile Cast Iron

Stormwater Class B

Stormwater Class D

These ductile cast iron covers are rated to load classes B and D to AS3996:2019. The ductile iron covers are rated as sealed to AS3996:2019 when used in conjunction with "UCC Manhole sealing grease". Alternative Manhole sealing grease can be used but in all cases manufacturer application must be followed to ensure sealing is achieved.

Disclaimer: All measurements are in millimetres and are subject to change without any prior notice. It is advised for this product to be installed by a professional contractor to ensure installation is correct. Further information is available at www.everhard.com.au

TOP VIEW

SECTION A-A

TOP VIEW

SECTION A-A

everhard.com.au | 131 926

EVERHARD INDUSTRIES

SEWER & STORMWATER ACCESS COVERS

Access Cover & Frame, Class B, Sewer (14806)

Access Cover & Frame, Class B, Stormwater (14807)

Access Cover & Frame, Class D, Sewer (14808)

Access Cover & Frame, Class D, Stormwater (14809)

Assembly and Installation Instructions



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Products

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GENERAL INFORMATION

Access covers and frames are a set. Switching the covers or frames is not recommended. Covers are to be installed with the frame during the installation process. Installing the frame without the cover can lead to issues with fitment and gas tightness. Improper installation will void the manufacturer's warranty. Assemblies requiring water and/or gas tightness must use manhole sealing grease to achieve the desired seal.

USE CASES

Access Covers and frames are versatile products with differing use cases.

Class B Covers and Frames

For Class B access covers and frames the products can be cast in-situ or built into a rebated base work later using non-shrink grout. The pit clear opening should not exceed the diameter of the frame.

Class D Covers and Frames

The Class D access covers and frames must be cast into the base concrete. The concrete should be vigorously vibrated to prevent the formation of air pockets under the frame and ensure that the surrounding concrete MPa is unaffected. The pit clear opening should not exceed the diameter of the frame.

Access Cover & Frame			
Ei Code	Load Class	Application	Water & Gas Tightness
14806	Class B	Sewer	Sealed*
14807	Class B	Stormwater	Sealed*
14808	Class D	Sewer	Sealed*
14809	Class D	Stormwater	Sealed*

* manhole sealing grease should be applied to ensure seal is water & gas tight in accordance with AS3996:2019



Interior Products

Drainage Solutions

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INSTALLATION OF THE SYSTEM

The installation process for the access covers and frames is critical to the product performance and lifespan.

JOB PREPARATION

- Check that the product is the right load classification for the job.
- Prepare internal boxing so it is internal to the frame.
- The pit clear opening should not exceed the diameter of the frame

PRE-INSTALLATION ASSEMBLY

- Covers and frames are a set and should not be "mixed and matched".
- The cover and frame mating surfaces are to be cleaned and free of grime.
- The frame edges must level and be level with the surface.
- Ensure the cover sits level in the frame and does not rock.

INSTALLATION

- Concrete must FULLY support the frame all the way to the inside edge of the frame.
- Use concrete appropriate for the load requirements. A minimum of 32 MPa is recommended. Vigorously vibrate the concrete to ensure there are no air pockets or voids.
- After the curing period, remove the cover and test the frame is secure and there are no voids.
- Ensure the mating surfaces are clear of debris and dirt and apply Manhole Sealing Grease. Manhole Sealing Grease manufacturer instructions should be followed when applying the grease.



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SEALED

The Access Cover and Frames have been tested according to AS3996:2019 for water and gas tightness by a NATA accredited laboratory. To ensure the product performs according to test parameters the following requirements must be followed:

1. Correct installation procedures have been followed.
2. Concrete is poured with the cover within the frame to ensure there is no frame warpage.
3. Damaged access covers and frames are not used.
4. Manhole Sealing Grease such as UCC Manhole Sealing Grease is applied to clean mating surfaces according to the Manhole Sealing Grease manufacturer's instructions.
5. Water and gas tightness tested in the field prior to service.
6. Checked and signed off by a registered engineer.
7. Regular maintenance of the covers and frames is required. The mating surfaces should be cleaned, re-greased and tested for water and gas tightness quarterly.

LOCKING INSTRUCTIONS (CLASS D ONLY)

The Stormwater and Sewer CLASS D Access Covers and Frames have 2 locking pins to prevent uplift due to traffic and comply with AS3996:2019 Clause 4.2.7 Uplift Resistance to Traffic. Each locking pin is housed in one of the Lifting Keyhole slots and bolted down to secure the cover to the frame.

Installation Sequence

1. Position the Cover so that the Lifting Keyhole is aligned with the 18mm hole in the Frame
2. If it is not aligned, you will need to rotate the Cover until the hole and Lifting Keyhole line up. See the following drawings for reference.
3. Place the Locking Pin into the Lifting Keyhole slot so that the pin locates in the hole in the Frame
4. Insert the M8 bolt and tighten to 10 Nm.

Removal is the reverse of the Installation Sequence. Note – you might have to sweep away and debris that has accumulated on top of the Locking Pin prior to removal.



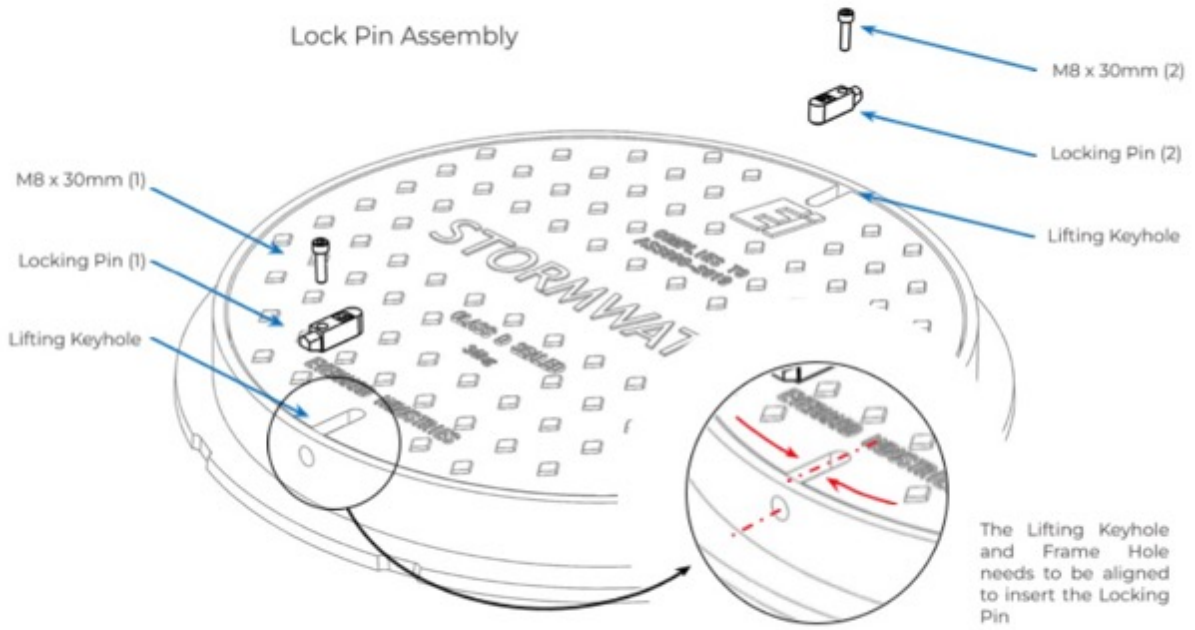
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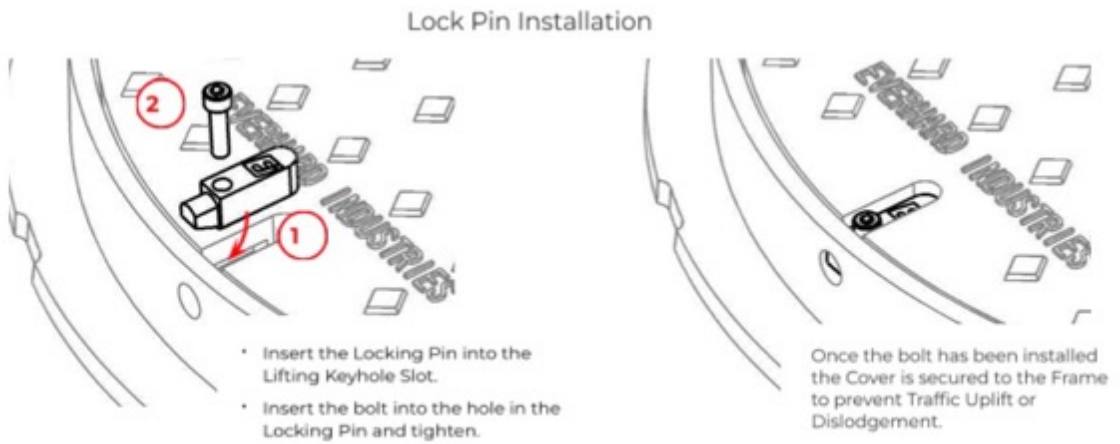
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Exploded view of the Locking Pins and Bolts



FOR MORE INFORMATION CONTACT 131 926 OR VISIT OUR WEBSITE | everhard.com.au



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APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certification Certificates are available from WSAA.

**TABLE B1
EVERHARD INDUSTRIES PTY LTD – MANAGEMENT SYSTEM**

454 Newman Road Geebung Queensland	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	4566-2700-01
Certifying Agency	Compass Assurance Services
First Date of Certification	13 April 2011
Current Date of Certification	21 March 2023
Expiry Date of Certification	13 April 2026

**TABLE B2
HONG GUANG HANDAN FOUNDRY CO LTD – MANAGEMENT SYSTEM**

Xiaozhai Town, Jize County, Nankai District, Hebei, China	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	FM 510540
Certifying Agency	BSI
First Date of Certification	11 September 2006
Current Date of Certification	31 August 2021
Expiry Date of Certification	30 August 2024

**TABLE B2
EVERHARD INDUSTRIES PTY LTD – PRODUCT CERTIFICATION**

454 Newman Road Geebung Queensland	
Product Standard/Spec.	AS 3996-2019
Certificate No.	SMK41379
Issuing Certification Body	SAI-Global
First Date of Certification	4 October 2023
Current Date of Certification	4 October 2023
Expiry Date of Certification	3 October 2028



CERTIFICATE OF REGISTRATION

Everhard Industries Pty Ltd

454 Newman Road, Geebung, Brisbane, QLD 4034, Australia
 450-452 Newman Road, Geebung, Brisbane, QLD 4034, Australia
 25 Robertson Road, Brendale, QLD 4500, Australia
 11-13 Claredale Road, Dandenong, Melbourne, VIC 3175, Australia
 55 Supply Road, Bentley Park, Cairns, QLD 4869, Australia
 464 Victoria Street, Wetherill Park, Sydney, NSW 2164, Australia
 28 Haydock Street, Forrestdale, WA 6112, Australia

Has been assessed and certified by Compass Assurance Services to the following management systems, standards and guidelines:

ISO 9001:2015

QUALITY MANAGEMENT SYSTEMS

The scope of the certification covers the following activities:

The provision of Design, Manufacture, Sales, Installation and Servicing of products to it's customers in civil or domestic, including surface water drainage / wastewater / rainwater solutions, Aqua Nova aerated wastewater treatment systems, laundry / bathroom / kitchen products.

Managing Director



CERTIFICATION DATE:
13 April 2011

DATE OF ISSUE:
21 March 2023

EXPIRY DATE:
13 April 2026

CERTIFICATE #:
4566-2700-01



Compass Assurance Services Pty Ltd
 Level 1, 135 Queen Street, Cleveland, 4163 QLD
 1300 495 855 | www.cas.com.au

Compass Assurance Services is accredited by The Joint Accreditation System of Australia and New Zealand (www.jas-anz.org/register) - accreditation number: M531071340



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that: **Hong Guang Handan Cast Foundry Co., Ltd.**
Nankai District
Xiaozhai Town
Jize County
Handan
Hebei
057351
China

邯郸市虹光铸造有限公司
91130431750277834W
中国
河北省
邯郸市
鸡泽县
小寨镇
南开区
邮编: 057351

Holds Certificate No: **FM 510540**

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The manufacture of grey iron and ductile iron castings, including manhole covers, grates, channel grates, pipes and fittings, valve bodies and covers, hydrant housings, water boxes. 灰口铸铁和球墨铸铁材质铸件的制造, 包括井盖、篦子、水沟篦子、管件、阀体/盖、消防栓盖、水表盖。

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2006-09-11

Latest Revision Date: 2021-07-14

Effective Date: 2021-08-31

Expiry Date: 2024-08-30

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...making excellence a habit.™

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](#).

Printed copies can be validated at www.bsi-global.com/ClientDirectory or telephone +86 10 8507 3000, as well as at www.cnca.gov.cn, the official website of CNCA – Certification and Accreditation Administration of the People's Republic of China.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization. The certified organization shall be subject to surveillance audit periodically with acceptable results for maintaining the validity of this certificate. This certificate is valid only if provided original copies are in complete set.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
BSI Management Systems Certificates (Beijing) Co., Ltd.
Rm. 2008 East Ocean Center, No. 24A Jianguomenwai Street, Beijing 100004, P. R. China Tel: +86 10 8507 3000
A Member of the BSI Group of Companies.



STANDARDSMARK LICENCE

SAI Global hereby grants:

Everhard Industries Pty Ltd

454 Newman Road, Geebung, QLD 4034, Australia

StandardsMark Licence

Manufactured to:

AS 3996:2019 - Access covers and grates

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee* and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Licence No: SMK41379

Issued : 4 October 2023
Expires : 3 October 2028

Originally Certified : 4 October 2023
Current Certification : 4 October 2023

Calin Moldovean
President, Business Assurance
SAI Global Assurance



* For details of manufacture, refer to the licensee

The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (ACN 108 716 669) ("SAI Global") 650 Lorimer Street, Port Melbourne VIC 3207, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to www.saiglobal.com, for the list of product models.



SCHEDULE TO STANDARDSMARK LICENCE

SAI Global hereby grants:

Everhard Industries Pty Ltd

454 Newman Road, Geebung, QLD 4034, Australia

StandardsMark Licence

Manufactured to:

AS 3996:2019 - Access covers and grates

Model identification of the goods on which the STANDARDSMARK may be used:

Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal size	Material Designation	Load Classification	Opening Type	Ventilation / Sealing Type Classification	Date Endorsed
14806	Sewer 620	Everhard Industries	Circular Cast Iron Access cover & Frame EI Class B Sewer D:620mm	Sewer Access Cover	620mm	Cast Iron	Class B	Lift out	Sealed	2 Oct 2023
14807	Stormwater 620	Everhard Industries	Circular Cast Iron Access cover & Frame EI Class B Stormwater D:620mm	Stormwater Access Cover	620mm	Cast Iron	Class B	Lift out	Sealed	2 Oct 2023
14808	Sewer 610	Everhard Industries	Circular Cast Iron Access cover & Frame EI Class B Sewer D:610mm	Sewer Access Cover	610mm	Cast Iron	Class D	Lift out	Sealed	2 Oct 2023
14809	Stormwater 610	Everhard Industries	Circular Cast Iron Access cover & Frame EI Class B Stormwater D:610mm	Stormwater Access Cover	610mm	Cast Iron	Class D	Lift out	Sealed	2 Oct 2023

End of Record

Licence No: SMK41379

Issued Date: 4 October 2023

This schedule supersedes all previously issued schedules



* For details of manufacture, refer to the licensee

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APPENDIX C - SUPPLIER CONTACTS

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