



Q-Max Pumping Systems Pty Ltd

PRODUCT APPRAISAL REPORT 2310

Precast Concrete Sewerage Pump Stations

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Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	30 November 2023
WSAA Expert Panel	WSAA	30 November 2023
Peter Pittard, WSAA Consultant	WSAA	16 November 2023
Carl Radford, Product Appraisal Manager	WSAA	30 November 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

Q-Max Pumping Systems Pty Ltd is an Australian family business that offers pumping solutions for sewerage, water supply and commercial building services. Its products include water booster stations and pump stations for sewage and stormwater.

This Appraisal is for a range of modular precast concrete sewage pump stations with nominal diameters of 2.2m, 3.2m and 3.6m for installation up to a maximum depth of 15m. An integral valve chamber is offered for the 2.2m and 3.2m pump stations.

Q-Max offers a bespoke service where each pump station can be supplied on a project-by-project basis to suit specific customer requirements.

The pump stations may be supplied with accessories including pumps, valves, pipework, flowmeters, odour control measures, chemical dosing systems, ladders, platforms and access covers. Electrical controls and instrumentation can also be supplied to customer specifications.

The precast concrete components are manufactured for Q-Max by Bianco Walling Pty Ltd (Trading as Bianco Precast) using pre-mixed concrete with a minimum of 50 MPa ultimate compressive strength, supplied by Boral Resources (SA) Limited.

The concrete segments are jointed using UCC JointSeal rectangular section butyl mastic strip.

The inner walls of the pump stations and valve chambers are generally coated with 3 coats of Megapoxy MC, a 2-part epoxy resin manufactured by Vivacity Engineering Pty Ltd.

Hinged aluminium covers with fold up safety grates for four-sided access are generally supplied to provide access to the pump well and valve chamber. Alternative access designs can be accommodated to suit individual water agency requirements, including AS 3996:2019 ductile iron or stainless-steel access covers for Class A, B or D applications.

Design review and verification has been completed by appropriately qualified consulting engineers for the pump stations included in this Appraisal. Structural computations have been based on a maximum installation depth of 15 metres.

Q-Max Pumping Pty Ltd and its major component suppliers hold an ISO 9001:2015 Quality Management System Licence.

There is currently no Australian or International standard that provides specific criteria for the manufacture of pre-cast concrete pump stations for sewage applications.

This Appraisal has determined that the Q-Max range of modular precast concrete sewage pump stations, as detailed in this report, meets the requirements of WSAA 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 Q-Max precast concrete sewage pump stations, as detailed in this report, for use in sewerage networks provided the design installation, testing and commissioning are in accordance with relevant WSAA Codes and manufacturer's requirements.

2 THE APPLICANT

The Applicant is Q-Max Pumping Systems Pty Ltd.

2.1 The Supplier

Q-Max Pumping Systems Pty Ltd is an Australian family business that offers pumping solutions for sewerage, water supply and commercial building services. Its products include water booster stations and pump stations for sewage and stormwater. The company was

founded in 1975 and is based in Queanbeyan, NSW. Q-Max has a staff of 22 including engineering, drafting, project management, installation, sales and service personnel.

2.2 The Manufacturers

Bianco Walling Pty Ltd, trading as Bianco Precast, commenced operations in 1994 and is a manufacturer of a range of precast concrete products serving new infrastructure, defence, commercial and industrial projects throughout Australia. Their product range includes structural building products, drainage products and sewer and stormwater products.

Boral Resources (SA) Limited supplies batched pre-mixed concrete to Bianco for manufacture of the Q-Max pump station components. Boral is a well-established supplier of pre-mixed concrete for domestic, commercial and industrial markets in South Australia and has been servicing Australia's market with pre-mixed concrete since 1972.

3 THE PRODUCT

This Appraisal is for a range of modular precast concrete sewage pump stations with nominal diameters of 2.2m, 3.2m and 3.6m for installation up to a maximum depth of 15m. An integral valve chamber is offered for the 2.2m and 3.2m pump stations.

Q-Max offers a bespoke service where each pump station can be supplied on a project-by-project basis to suit specific customer requirements.

The pump stations may be supplied with accessories including pumps, valves, pipework, flowmeters, odour control measures, chemical dosing systems, ladders, platforms and access covers. Electrical controls and instrumentation can also be supplied to customer specifications.



**FIGURE 1
TYPICAL PUMP STATION**

The precast concrete is made from sulphate resisting cement using calcareous aggregate and has a minimum of 50 MPa ultimate compressive strength.

The concrete segments are jointed using UCC JointSeal rectangular section butyl mastic strip.

The inner walls of the pump stations are generally coated with 3 coats of Megapoxy MC, a 2-part epoxy resin manufactured by Vivacity Engineering Pty Ltd. See 6.2.4 for more details.

Hinged aluminium covers with fold up safety grates for four-sided access are generally supplied to provide access to the pump well and valve chamber. Alternative access designs can be accommodated to suit individual water agency requirements, including AS 3996:2019 ductile iron or stainless-steel access covers for Class A, B or D applications.

Design review and verification has been completed by appropriately qualified consulting engineers for the pump stations included in this Appraisal. Structural computations have been based on installation depths of 15m. Other assumptions and criteria are contained within the review and are available directly from Q-Max.

See Table 1 for pump station dimensions.

TABLE 1 PUMP STATION DIMENSIONS

Pump Station Diameter m	Minimum Depth m	Maximum Depth m	Available Increment Heights m
2.2	1.75	15	0.75 – 2.0
3.2	1.75	15	0.75 – 2.0
3.6	1.75	15	0.50 – 2.0

4 SCOPE OF THE APPRAISAL

This Appraisal is for a range of Q-Max precast concrete sewage pump stations with nominal diameters of 2.2m, 3.2m and 3.6m.

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts precast concrete sewerage pump stations where the product and its components are manufactured and supplied under cover of ISO 9001 quality management systems.

There is no applicable Australian or International standard that provides specific criteria for precast concrete sewerage pump stations.

5.2 Performance Requirements

Precast concrete for the pump station components is required to comply with AS 1379:2007 *Specification and supply of concrete* and WSA 114:2002 *Industry standard for concrete special class*. A minimum 50 MPa ultimate compressive strength is required.

Access covers are required to comply with AS 3996:2019 *Access covers and grates*.

A design review and structural verification is required to be completed by appropriately qualified independent engineers.

Appraisal criteria is 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 also relevant to this application:

WSA PS 358 Concrete, pre-mixed, special class

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

Q-Max has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. 500-05715-Q issued to Q-Max Pumping systems by QMS.
- ISO 9001:2015 Certificate of Registration No. QEC24389 issued to Bianco Walling Pty Ltd trading as Bianco Precast by SAI-Global.
- ISO 9001:2015 Certificate of Registration No. FS 603749 issued to Boral Concrete (SA) by BSI.

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

6.2 Compliance with Performance Requirements

6.2.1 Precast components

Bianco Precast manufactures the precast concrete components for the Q-Max pump stations in accordance Q-Max designs and tooling. These components include the base section, standard increments, integral valve chamber, valve chamber increments and cover slab.

The most relevant standards for the manufacture of the pump stations are AS 3735:2001 *Concrete structures for retaining liquids*, AS/NZS 4671:2018 *Steel for the reinforcement of concrete* and AS 3610.1:2018 *Formwork for concrete specifications*.

AS 3735 nominates the concrete minimum internal cover over reinforcement as 45mm for 50 MPa concrete. The Q-Max pump stations comply with this requirement.

Complete dimensions of the pump stations and their components can be sourced directly from Q-Max

6.2.2 Concrete

The premixed concrete is supplied by Boral Resources (SA) Limited in accordance with Q-Max requirements. The concrete for the pre-cast components complies with AS 1379:2007 *Specification and supply of concrete* and WSA 114:2002 *Industry standard for concrete special class*. The design specifications are for a minimum 50 MPa ultimate compressive strength. Calcareous aggregate is used.

The Sulphate Resistant cement complies with AS 3972 *Portland cement*, the aggregates comply with AS 2758.1 *Aggregates and rock for engineering purposes – Concrete aggregates* and the admixtures comply with AS 1478.1 *Chemical admixtures for concrete, mortar and grout admixtures for concrete*.

Routine testing is undertaken by Lab SA (NATA Accreditation No 375) or Hanson Construction Materials Pty Ltd (NATA Accreditation No 415) to ensure compliance with the specifications. A copy of a typical test report has been submitted by Q-Max to demonstrate compliance.

6.2.3 Jointing material

The concrete segments and cover slab are jointed using JointSeal rectangular section butyl mastic strip manufactured by Universal Corrosion Coatings Pty Ltd (UCC). The compound complies with ASTM C 990-09 *Flexible joint sealants*. A Data Sheet is attached in Appendix A.

6.2.4 Coatings

The inner walls of the pump station and valve chamber are generally coated with 3 coats of Megapoxy MC, a 2-part epoxy resin manufactured by Vivacity Engineering Pty Ltd. Details are available at the following link: <http://megapoxy.com/product/megapoxy-mc/>.

Alternatively, where required, HDPE internal liners may be installed.

6.2.5 Access covers

Hinged aluminium covers with fold up safety grates for four-sided access, manufactured by Austral International, are generally supplied to provide access to the pump well and valve chamber.

Alternative access designs can be accommodated to suit individual water agency requirements, including AS 3996:2019 ductile iron or stainless-steel access covers for Class A, B or D applications.

Detailed information is available from Q-Max.

6.2.6 Design verification

The pump stations are required to have a design review and verification completed by appropriately qualified and independent consulting engineers. The review includes verification of structural adequacy and buoyancy checks up to the specified depth.

Design reviews for the 2.2m, 3.2m and 3.6m pump station versions have been undertaken by MLEI Consulting Engineers, based in South Australia.

Copies of the design and construction reviews and associated drawings may be obtained directly from Q-Max.

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Q-Max provides customers with pro-forma documents for submission of their pumping station requirements together with diagrams for customers/designers to nominate pipeline positions for location of factory cored apertures. Q-Max also provides a checklist of items required to be completed prior to commissioning of the pumping station.

Q-Max recommends that a site investigation is completed to establish indicative subsurface conditions prior to the commencement of construction. Recommendations are available from Q-Max for construction and backfill requirements.

Q-Max advise that installation is usually carried out by Q-Max personnel.

An Installation, Operation and Maintenance Manual is also available from Q-Max.

8 PRODUCT MARKING

Each precast component is identified by a cast-in plastic plaque with project details noted. See Figure 2 for an example.



**FIGURE 2
MARKING EXAMPLE**

9 PACKAGING AND TRANSPORTATION

Q-Max is responsible for delivery of the precast concrete components to site. The precast components are loaded onto a truck using timber chocks between and beneath each component.

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 Q-Max's warranty is included in their terms and conditions of sale.

Specific warranty conditions should be discussed with Q-Max

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

Q-Max has been supplying concrete sewage pump station for more than 30 years. Water Agencies and Councils that have installed Q-Max pump stations include Sydney Water, Port Macquarie Hastings Council, Coffs Harbour City Council, City of Wagga Wagga, Armidale Regional Council, Mid Coast Water, Shoalhaven City Council, Dubbo Regional Council, Toowoomba Regional Council and more.

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

14.2.1 Disclaimer of liability

Neither the Publisher(s) nor any person involved in the preparation of the Report 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 Report or the product appraisal criteria underlying it. This includes (without limitation) any liability for any recommendation or information in the Report or any errors or omissions.

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14.2.3 Need for independent assessment

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

Further information is available from Q-Max or at the following link:

<https://qmaxpumping.com.au/solution-category/precast-concrete-pump-stations/>

Drawings and support information is available directly from Q-Max.



PRECAST CONCRETE PUMP STATIONS

The QMAX Precast concrete pump station has been specifically designed to reduce the site work and installation time associated with pump stations within infrastructure.

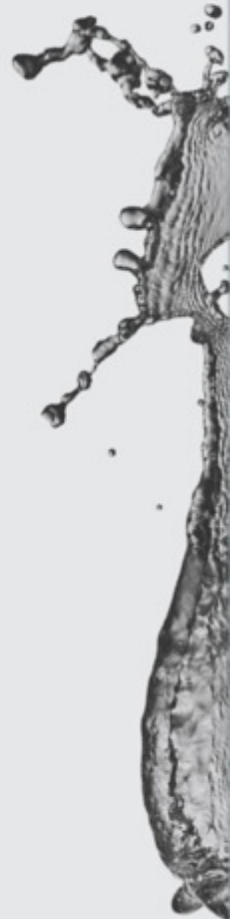
QMAX offers a bespoke service in its ability to customize pump stations to suit the specific requirements of our customers.

Whether it's for sewer, storm-water, trade waste or any other liquid that needs to be transferred, QMAX can work with you to develop a site-specific solution.

The team at QMAX has a complete understanding of pump systems, from pump selection, pipework and valve arrangements to level and system control to SCADA intergration, QMAX are able to offer a complete turnkey solution.

Some of the key benefits that our clients and users experience Qmax precast systems are:

- Base and lower wall section are moulded as a single piece.
- 50MPa concrete used, with calcareous aggregate and sulfide resistant cement
- High integrity concrete from intensely vibrated molds used in the casting process
- Guaranteed reinforcement cover, spacers used off internal mold
- Customized pump well and valve chamber depths
- Internal diameters; 1.8, 2.25, 3.2 and 3.6 meters
- Site specific engineering calculations available for depths up to 10-15m, dependent on the size.
- All pump stations provided with site specific drawings, including excavation detail.
- Internal pipework and valve considerations designed to customers requirements.



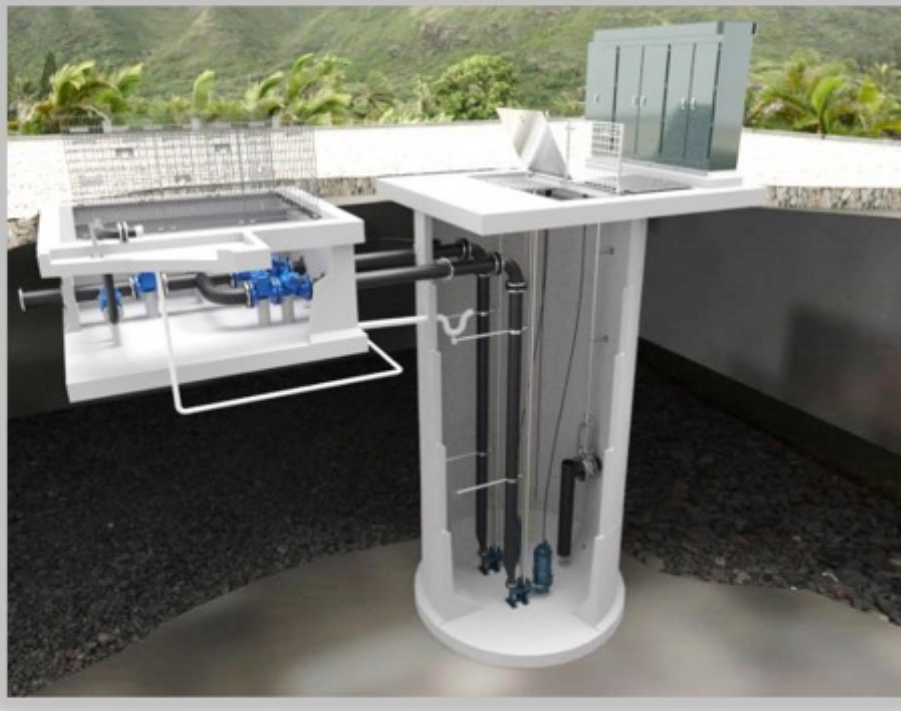


A full copy of this manual is available from Q-Max



PRE-CAST CONCRETE PUMP STATION

INSTALLATION, OPERATION & MAINTENANCE MANUAL





Product Data Sheet

JointSeal Rectangular Section

Butyl Mastic Strip

A custom designed sealing strip, providing assured long term joint sealing for modular segmented RC manhole units in a multitude of burial conditions

Description	UCC JointSeal Rectangular Section Butyl Mastic Strip is designed to provide plasticity and stability for the full service life of the product UCC JointSeal Rectangular Section Butyl Mastic Strip is blended from isobutylene and isoprene polymers with additional tackifying agents and anti oxidising agents.
Uses	UCC JointSeal Rectangular Section Butyl Mastic Strip is designed to provide assured long term joint sealing for modular segmented RC manhole units.
Features	<ul style="list-style-type: none"> - Retains tackiness even in cold weather conditions - Ready for immediate service, no curing period. - Highly conformable and malleable. - Fully in conformance with ASTM C 990-09 Flexible Joint Sealants - Adheres intimately to a host of substrates.
Application	<ul style="list-style-type: none"> - Brush down surface to remove dust and other debris which might affect bond. - Prime porous substrates with UCC Protek Butyl (Multi) Primer - Lay mastic strip on substrate taking care to butt join ends

Properties	Test Method	Value
Hardness (00 Durometer)	N/A	70 Avge
Specific Gravity	N/A	1.1 Avg
Service Life	N/A	30 Years
Application Temperature	Deg C	Minus 10 to + 50
Service Temperature	Deg C	Minus 10 to +75
Excursion Peak Temperature	Deg C	80

Product Packaging			
Dimensions (mm)	Roll Length (m)	Roll / Carton	Carton Weight (kg)
20 x 15	4.4	5	6

Universal Corrosion Coatings Pty Ltd
30A Trade Park Drive , Tullamarine
Victoria, Australia 3043
Ph: 61 3 9310 3515
Fax: 61 3 9310 3524
Web: www.unicc.com.au

APPENDIX B - QUALITY CERTIFICATIONS

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

**TABLE B1
Q-MAX PUMPING SYSTEMS PTY LTD – MANAGEMENT SYSTEMS**

72 Hugh Street Queanbeyan ACT	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	500-05715-Q
Certifying Agency	QMS
First Date of Certification	12 March 2021
Current Date of Certification	12 March 2021
Expiry Date of Certification	11 March 2024

**TABLE B2
BIANCO WALLING PTY LTD – MANAGEMENT SYSTEMS**

183 South Terrace Wingfield SA	
Quality Systems Standard	ISO 9001:2105
Certification Licence No.	QEC24389
Certifying Agency	SAI Global
First Date of Certification	31 October 2007
Current Date of Certification	23 August 2021
Expiry Date of Certification	27 August 2024

**TABLE B3
BORAL CONCRETE SA – MANAGEMENT SYSTEMS**

126 Churchill Road North Dry Creek SA	
Quality Systems Standard	ISO 9001:2105
Certification Licence No.	FS 603749
Certifying Agency	BSI
First Date of Certification	24 April 1992
Current Date of Certification	31 May 2023
Expiry Date of Certification	31 May 2026



CERTIFICATE OF APPROVAL

No. 500-05715-Q

This is to certify that the Management System at

QMAX Pumping Systems

Of

72 High Street, Queanbeyan East NSW 2620

Has been examined by assessors of QMS Certification Services
and found to be conforming to the requirements of:

ISO 9001:2015
Quality Management Systems

In respect of the following activities:

Provision of pumping equipment and service

This certificate is valid from 12/03/2021 to 11/03/2024

Original certification date: 12/03/2021

Issue Date: 12/03/2021

Gerry Bonner, CPEng, BEng, FIE Aust, Chairman – QMSCS Pty Ltd

To verify the validity of this certificate please visit www.jas-anz.org/register



Accreditation Number
51410994MA



QMSCS Pty Ltd Trading as QMS Certification Services | Head Office: Suite 3, Level 2, 161 King Street Newcastle NSW 2300



CERTIFICATE OF REGISTRATION

This is to certify that:

Bianco Walling Pty Ltd

ABN 94 064 029 483

Trading as
Bianco Precast

535 Grand Junction Road Gepps Cross SA 5094 AUSTRALIA
121 Regency Road Croydon Park SA 5008 AUSTRALIA
183 South Terrace Wingfield SA 5013 AUSTRALIA

operates a

QUALITY MANAGEMENT SYSTEM

which complies with the requirements of

ISO 9001:2015

for the following scope

The design, manufacture, erection and installation of concrete products which includes precast panels, bubble deck, civil drainage and structural elements. This certification does not cover the NATA Laboratory.

Certificate No: QEC24389

Issued: 25 August 2021

Expires: 27 August 2024

Originally Certified: 31 October 2007

Current Certification: 23 August 2021

Frank Camasta
Global Head of Technical Services
SAI Global Assurance



Registered by:
SAI Global Certification Services Pty Ltd (ACN 108 716 669) 680 George Street, Sydney NSW 2000 Australia with SAI Global Pty Limited 680 George Street Sydney NSW 2000 Australia ("SAI Global") and subject to the SAI Global Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for proven negligence. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. To verify that this certificate is current please refer to SAI Global On-Line Certification register at <http://register.sai-global.com/>





Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Boral Construction Materials Ltd
Level 18/15 Blue Street
North Sydney NSW 2060

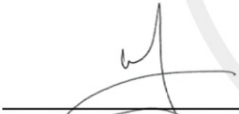
Holds Certificate Number:

FS 603749

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

Please see scope page.

For and on behalf of BSI:


Marc Barnes, Managing Director, BSI Group ANZ

Original Registration Date: 1992-04-24

Effective Date: 2023-05-31

Latest Revision Date: 2023-05-31

Expiry Date: 2026-05-31



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...making excellence a habit.™

This certificate was issued electronically and remains the property of BSI Group ANZ Pty Limited, ACN 078 659 211 and is bound by the conditions of contract. This certificate can be verified at www.bsi-global.com/clientdirectory. Printed copies can be validated at www.bsi-global.com/ClientDirectory, or www.jas-anz.org/register or telephone + 61 2 9925 2700. Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization. This certificate is valid only if provided original copies are in complete set.

Certificate No: **FS 603749**

Registered Scope:

Design, manufacture, supply and construction of bituminous asphalt, spray-sealed surfaces and pre-coated aggregate including general road construction and the management of contractors associated with these works. Supply of bitumen emulsion. Provision of project management services. Design, manufacture and supply of premixed concrete from fixed and mobile concrete plants including customer service centres. Extraction, manufacture and supply of quarry and sand products. Management of contract and mobile quarrying and crushing services. Provision of technical services supported by in-house laboratories. Provision of logistics management, road transportation and handling of bulk materials. Management and administration functions supporting the business activities including operations, sales, training and systems management.

APPENDIX C - SUPPLIER CONTACTS

Q-MAX PUMPING SYSTEMS PTY LTD

72 High Street

Queanbeyan NSW 2620

Phone: 1800 678 910

Email: sales@qmaxpumping.com.au

Website: <https://qmaxpumping.com.au/>



Melbourne Office

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