



WSAA PRODUCT APPRAISAL CERTIFICATE

Wenac Australia Pty Ltd

DI Backing Rings for PE Stub Flanges

This appraisal is for a range of ductile iron polymeric coated backing rings for use with polyethylene (PE) stub flanges. The PN16 backing rings conform to the dimensional and mating dimensions of AS/NZS 4087:2011 *Flanges for water supply applications* with internal diameters conforming to ISO 9624:2019 *Thermoplastics piping systems for fluids under pressure - Flange adapters and loose backing flanges-Mating dimensions*.

The sizes included in the scope of this appraisal are DN 80/90, DN 100/125, DN 150/180, DN 200/225, DN 225/250, DN 250/280, DN 300/315, DN 450/450 and DN 600/630.

Backing rings for use with PE stub flanges have traditionally been manufactured from galvanised mild steel or stainless steel. Ductile iron backing rings offer a technically equivalent and competitive alternative.

Quality and product details are included in the attached Schedules A and B.

Product Category	Backing Rings
PA Number:	PA 2312
Supplier	Wenac Australia Pty Ltd
Brand	Wenac
Standards	AS/NZS 4087:2011 <i>Flanges for water supply applications</i> ISO 9624:2019 <i>Thermoplastics piping systems for fluids under pressure - Flange adapters and loose backing flanges-Mating dimensions</i>
WSAA Product Specification	WSA PS 309 <i>Backing Rings for PE Flanges</i>
Other Specifications	
Issue date	1 December 2023
Expiry date	30 November 2028
Recommendations	It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise Wenac DI Backing Rings for PE Flanges for use in water and sewer networks provided they are installed in accordance with WSAA Codes and the 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 AND PRODUCT CERTIFICATIONS

Wenac has requested that the identity of the manufacturer remain “commercial-in-confidence”. ISO 9001 licence details are contained within the appraisal report available on the WSAA ‘members only’ website.



PRODUCT LITERATURE



Ductile Iron Backing Rings



A more cost-effective alternative to the stainless steel backing rings, this new ductile iron range has been engineered to suit all the PE pipe flange adaptors. The DI material with higher strength and better corrosion resistance than carbon steel ensures the integrity of the pipe joint and a long lasting pipe connection.

- Comply with AS/NZS 4087 Figure B5 and AS2129 Table D
- FBE coating comply with AS/NZS 4158
- Conforming to ISO9624:2019 (internal diameters)
- Pressure rating to PN16

Standard sizes available as below

DN	PE OD Size	Flange OD	Flange ID	PCD	Reduce Dia	Hole Dia	No of Holes
80	90	185	108	146	138	18	4
100	125	215	135	178	170	18	4
150	180	280	188	235	225	18	8
200	225	335	238	292	268	18	8
225	250	370	268	324	310	18	8
250	280	405	295	356	340	22	8
300	315	455	338	406	385	22	12
450	450	640	470	584	560	26	12
600	630	825	645	756	730	30	16

More Enquiries

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