



# Plasson Australia Pty Ltd

## PRODUCT APPRAISAL REPORT 1603 Issue 2a

Simona PE Spigot Fittings for Pressure Applications

**AS/NZS 4129: 2020 Fittings for polyethylene (PE) pipes for pressure applications**

Published: 24 July 2021

## Document History

The following information indicates the changes made to this document.

Date	Version
29 June 2016	Peer Review
8 September 2016	Issue 1 Publication
22 July 2021	Issue 2 Client Review
24 July 2021	Issue 2 Publication
2 August 2021	Issue 2a Publication (correct typos)

## Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	20 July 2016
WSAA Expert Panel	WSAA	13 July 2016
Carl Radford, Product Appraisal Manager	WSAA	8 September 2016
Peter Pittard, WSAA Consultant	WSAA	23 July 2021
Carl Radford, Product Appraisal Manager	WSAA	23 July 2021

## 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

Plasson Australia Pty Ltd provides a wide range of solutions for connecting PE pipe. Plasson Australia, a wholly owned subsidiary of Plasson Limited (Israel), supplies their products including technical, marketing and sales support to end users via a network of resellers throughout Australia and the Pacific region. Plasson Australia is the exclusive distributor of SIMONA® moulded PE fittings in Australia and New Zealand.

Simona AG, headquartered in Kirn Germany, is a manufacturer of an extensive range of thermoplastic products with production facilities and sales offices located around the globe. Its products include pipe, fittings, valves, flanges, rods, sheets and other customised products.

This Appraisal is for a range of SIMONA PE100 moulded spigot fittings suitable for use with PE pipes manufactured in accordance with AS/NZS 4130 *Polyethylene (PE) pipes for pressure applications*.

This Issue 2 is to include some additional fittings in the range. The report has also been reviewed and updated to enable the expiry date to be extended for an additional five years.

The SIMONA range includes SDR 11 (PN 16) and SDR 17 (PN10) bends, tees, end caps, reducers, stub flanges and full-face flanges in sizes from DN 25 to DN 1200 with long spigots (suitable for electrofusion or butt welding) or short spigots (suitable only for butt welding). See Table 1 for a detailed summary of the range.

Simona AG holds an ISO 9001:2015 Quality Management System Licence.

The SIMONA fittings range has ISO Type 5 ApprovalMark product certification to AS/NZS 4129:2020 *Fittings for polyethylene (PE) pipes for pressure applications*.

This Appraisal has determined that SIMONA spigot fittings, as detailed in this report, meet the requirements of WSA PS 208 *Plastics Fittings for Pressure Applications with PE Pipe – Drinking Water, Non-Drinking Water Supply and Sewerage* 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 SIMONA range of moulded spigot fittings, as detailed in this report, for use in applications including drinking and non-drinking water supply and sewerage pressure applications provided pipeline design and installation is in accordance with relevant Standards, WSAA Codes and the manufacturer's requirements

## 2 THE APPLICANT

The Applicant is Plasson Australia Pty Ltd.

### 2.1 The Supplier

Plasson Australia Pty Ltd provides a wide range of solutions for connecting PE pipe. Plasson Australia, a wholly owned subsidiary of Plasson Limited (Israel), supplies their products including technical, marketing and sales support to end users via a network of resellers throughout Australia and the Pacific region. Plasson Australia is the exclusive distributor of SIMONA injection moulded PE fittings in Australia and New Zealand.

For more information see the Plasson website at [www.plasson.com.au](http://www.plasson.com.au).

### 2.2 The Manufacturer

Simona AG was established in Germany in 1857 as a leather processing business and has evolved into a leading manufacturer of thermoplastics products.

Simona has production facilities and sales offices located around the globe and nominates more than 35,000 items within its product offering. The company's is headquartered in Kirm, Germany.

For more information see the Slimona website at <https://www.simona.de/index.php?id=1&L=1>

### 3 THE PRODUCT

This Appraisal is for a range of SIMONA PE100 moulded spigot fittings suitable for use with PE pipes manufactured in accordance with AS/NZS 4130 *Polyethylene (PE) pipes for pressure applications*.

The SIMONA range of PE 100 moulded spigot fittings includes SDR 11 (PN 16) and SDR 17 (PN10) bends, tees, end caps, reducers, stub flanges and full-face flanges in sizes from DN 25 to DN 1200 with long spigots (suitable for electrofusion or butt welding) or short spigots (suitable only for butt welding). See Table 1 for a detailed summary of the range.

TABLE 1 RANGE OF SIMONA SPIGOT FITTINGS

Family Code	Fitting Description	DN range	SDR	PN
8137	Branch 45° Spigot Long Spigot	63 - 110	11	16
8137	Branch 45° Spigot Long Spigot	63 - 110	17	10
8101	Bend 90° Short Spigot	40 - 500	11	16
8101	Bend 90° Short Spigot	63 - 400	17	10
8191	Bend 90° Long Spigot	40 - 500	11	16
8191	Bend 90° Long Spigot	63 - 315	17	10
8139	End Cap Machined	250 - 630	11	16
8139	End Cap Machined	250 - 800	17	10
8196	End Cap Long Spigot	40 - 400	11	16
8196	End Cap Long Spigot	63 - 400	17	10
8100	End Cap Elongated Long Spigot	450 - 630	11	16
8100	End Cap Elongated Long Spigot	450 - 630	17	10
8150	Eccentric Reducer Machined Short Spigot	160 x 90 - 630 x 560	11	16
8150	Eccentric Reducer Machined Short Spigot	160 x 90 - 630 x 560	17	10
8149	Concentric Reducer Short Spigot	25 x 20 - 315 x 250	11	16
8150	Concentric Reducer Short Spigot	63 x 32 - 315 X 280	17	10
8100	Concentric Reducer Machined Short Spigot	355 x 225 - 630 x 560	11	16
8100	Concentric Reducer Machined Short Spigot	355 x 225 - 1000 x 900	17	10
8100	Concentric Reducer Machined Long Spigot	355 x 250 - 630 x 560	11	16
8100	Concentric Reducer Machined Long Spigot	355 x 250 - 630 x 560	17	10
8149	Concentric Reducer Long Spigot	50 x 40 - 315 x 280	11	16
8149	Concentric Reducer Long Spigot	75 x 63 - 315 x 280	17	10
8103	Tee Long Spigot	40 - 630	11	16
8103	Tee Long Spigot	63 - 630	17	10
8135	Reducing Tee Long Spigot	63 x 50 - 315 x 250	11	16
8135	Reducing Tee Long Spigot	75 x 63 - 315 x 250	17	10
8192	Elbow 45° Long Spigot	40 - 315	11	16
8192	Elbow 45° Long Spigot	63 - 315	17	10

8192	Elbow 90° Long Spigot	40 - 315	11	16
8192	Elbow 90° Long Spigot	63 - 315	17	10
8106	Stub Flange Short Spigot	25 - 630	11	16
8106	Stub Flange Short Spigot	63 - 800	17	10
8100	Stub Flange with Chamfer Short Spigot	110 - 500	11	16
8100	Stub Flange Machined Short Spigot	710 - 1200	17	10
8194	Stub Flange Long Spigot	40 - 400	11	16
8194	Stub Flange Long Spigot	63 - 630	17	10
NA	Stub Flange Machined Elongated	125 - 250	9	20
8194	Full Face Flange	125 - 225	11	16

The fittings are either injection moulded or machined from extruded billets.

Full face flanges are available as standard with compatibility to AS/NZS 4087 Figure B5 (PN16). Other flange drillings can also be accommodated.

The metal backing flanges for use with polyethylene PE flanges are not included in the scope of this appraisal.

#### 4 SCOPE OF THE APPRAISAL

The scope of this product appraisal applies to a range of SIMONA moulded PE100 spigot fittings as described in Section 3 and listed in the 'ISO Type 5 ApprovalMark product certification schedule.

#### 5 APPRAISAL CRITERIA

##### 5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts polyethylene moulded spigot fittings suitable for butt fusion and electrofusion welding for pressure applications manufactured in compliance with AS/NZS 4129:2020 *Fittings for polyethylene (PE) pipes for pressure applications* 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 SIMONA range of injection moulded spigot fittings have been appraised for compliance with AS/NZS 4129:2020 *Fittings for polyethylene (PE) pipes for pressure applications*.

Appraisal criteria is 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 208 Plastics Fittings for Pressure Applications with PE Pipe – Drinking Water, Non-Drinking Water Supply and Sewerage

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

<https://www.wsaa.asn.au/shop/product/35716>.

## **6 COMPLIANCE WITH APPRAISAL CRITERIA**

### **6.1 Compliance with Quality Assurance Requirements**

Plasson has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. 12 100 3169 TMS issued to Simona AG by TUV SUD.
- AS/NZS 4129:2020 ISO Type 5 ApprovalMark product certification Licence No. AMI 74596 issued to Plasson Australia by ApprovalMark International.

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 Material**

Plasson has advised that the PE compound Eltex TUB121 N6000 is used for moulding the fittings. A recent certificate of conformity and delivery receipt has been submitted to confirm currency of supply. This compound is listed in POP004A as AS/NZS 4131 compliant.

#### **6.2.2 Type tests**

Plasson submitted type test reports for the previous issue of this report to demonstrate compliance with AS/NZS 4129:2008. AS/NZS 4129:2020 references ISO 4227.3 for type test requirements which are the same as AS/NZS 4129:2008. Additional testing is therefore not required for this Appraisal.

The tests, undertaken on a representative range of fittings, were: appearance, spigot dimensions, wall thickness, hydrostatic tests at 20<sup>o</sup>C at 12.4MPa for 100 hours, 80<sup>o</sup>C at 5.4MPa for 165 hours and 80<sup>o</sup>C at 5MPa for 1000 hours and de-cohesive strength at 23<sup>o</sup>C.

#### **6.2.3 Effect on water**

Eltex TUB121 N6000 is listed in POP004A as compliant to AS/NZS 4020:2005 with a report dated December 2018.

In addition a copy of a test report No AAN88121 from Eurofins ams dated 21<sup>st</sup> April 2021 conducted for a DN 20 stub flange manufactured from Eltex TUB121 N6000 has been submitted to confirm compliance with AS/NZS 4020:2018.

## **7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION**

PE spigot fittings are relatively common in pipeline construction with butt fusion welding and electrofusion jointing carried out by trained installers.

Electrofusion welding and butt fusion welding may be used for joining pipe-to-pipe or fitting to-pipe. All welding shall be performed by welders who have successfully completed training by a Registered Training Organisation, endorsed by the Plastics Industry Pipe Association for the relevant welding method(s).

The Plastics Industry Pipe Association (PIPA) provides technical guidelines for electrofusion welding in the following documents.

- POP001 Electrofusion Jointing of Pipe and fittings for Pressure Applications and
- POP003 Butt Fusion Jointing of PE Pipes and Fittings – Recommended Parameters.

POP001 contains recommendations for necessary equipment for jointing, maintenance, servicing and calibration procedures as well as records to be kept.

POP003 is a guide to the butt fusion of polyethylene pipe using AS/NZS 4130 material as a basis, recommending the butt fusion procedures and parameters as specified in ISO 21307.



Copies of these documents can be downloaded from the PIPA website at <http://www.pipa.com.au>.

## 8 PRODUCT MARKING

SIMONA spigot fittings are marked in accordance with AS/NZS 4129 as follows:

- Manufacturer's name: SIMONA
- Date or batch code:
- Nominal size: e.g., d315
- Material type: PE100
- Classification: e.g., SDR: 17.6



**FIGURE 1 MARKING ON FITTING**

Packaging is labelled and includes the following information:

- Product description: e.g., Bend, 90°
- Nominal size: e.g., 355
- Material type: PE100
- Pressure class: e.g., SDR 17
- Colour: Black
- Certification Mark: ApprovalMark AMI 74596 AS/NZS 4129



**FIGURE 2 MARKING ON PACKAGING**

## 9 PACKAGING AND TRANSPORTATION

The SIMONA PE spigot fittings are supplied individually in sealed plastic bags and packed in cardboard cartons to protect the fittings during transport and handling.

Fittings should be stored in a cool, dry area, out of direct sunlight and transported in their cardboard cartons.

Steps should be taken to prevent:

- damage to the sealed plastic bags;
- large temperature fluctuations which may result in the build-up of moisture within the bags; and
- prolonged exposure to sunlight which may result in degradation of the plastic bags.

## **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 Plasson's warranty is included in their terms and conditions of sale.

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

SIMONA PE spigot fittings have been used within Australia for many years.

An installation trial is not considered necessary.

## **12 DISCUSSION**

The SIMONA PE100 moulded spigot fittings provide connection to PE pipelines using electrofusion jointing which offers a permanently sealed and jointed system, provided the electrofusion process is carried out correctly. The electrofusion jointed PE pipeline has the potential to have life expectancy equal to and in some cases well beyond other pipeline materials and jointing systems. The PE material is corrosion resistant and correctly made joints are permanently fused to provide a high level of joint integrity against leakage and/or infiltration over the long-term. Similar to other plastic pipe systems, PE is susceptible to fatigue from cyclic pressure changes and additional design considerations must be made if used in a pumped pipeline.

Prior to PE pipe and fittings being specified for mains in a pumped system or system otherwise exposed to regular surge / water hammer, the designer is required to verify suitability by applying the relevant design assessment nominated in the WSAA Water Supply Code of Australia.

The methods for design of plastic pipes and fittings for PE pressure pipe and fusion fittings are specified in PIPA Guideline POP010A: *Polyethylene pressure pipes—Design for dynamic stresses* and PIPA Guideline POP010B: *Fusion fittings for use with polyethylene pressure pipes—Design for dynamic stresses*.

PIPA Guidelines may be downloaded from [www.pipa.com.au](http://www.pipa.com.au).

PE pipelines are susceptible to permeation of specific organic chemicals (as are other pipeline systems) and care must be exercised if designing for installation in contaminated ground and/or brownfield sites. Seek further advice from Plasson or SIMONA regarding such installations.

## **13 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW**

There are no outstanding issues.

## **14 FUTURE WORKS**

No future works have been identified.

## **15 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, Phone: 03 8605 7601 email [carl.radford@wsaa.asn.au](mailto:carl.radford@wsaa.asn.au).

### **15.1 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 to each person involved in the preparation of the Report that the Recipient has understood and accepted the terms of this Disclaimer.

### **15.2 Limits on Reliance on Information and Recommendations**

#### **15.2.1 Disclaimer of liability**

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### **15.2.3 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. 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.

#### **No Updating**

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#### **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

# SIMONA

### Spigot Fittings

Fittings for Electrofusion and Buttwelding  
Certified Compliance - AS/NZS 4129:2020



Concentric Reducer Short Spigot



Concentric Reducer Long Spigot



90D Bend Short Spigot



45D Branch Long Spigot



Tee Long Spigot



Reducing Tee Long Spigot



90D Bend Long Spigot



45D Elbow Long Spigot



90D Elbow Long Spigot



Full Face Flange



Stub Flange For ISO/DIN/AS, Long Spigot



Stub Flange Short Spigot



End Cap Long Spigot

GLOBAL THERMOPLASTIC SOLUTIONS

**APPENDIX B - QUALITY CERTIFICATIONS**

Copies of the following Quality Certificates are available from WSAA

**TABLE B1 SIMONA AG – MANAGEMENT SYSTEMS**

Teichweg 16, 55606, Kirn, Germany	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	12 100 3169 TMS
Certifying Agency	TÜV SÜD
Current Date of Certification	22 December 2020
Expiry Date of Certification	21 December 2023

**TABLE B2 PLASSON AUSTRALIA PTY LTD - PRODUCT CERTIFICATION**

61 Dunning Avenue. Rosebery, NSW	
Product Standard/Spec.	AS/NZS 4129:2020
Certificate No.	AMI 74596
Issuing Certification Body	ApprovalMark International
First Date of Certification	8 January 2016
Current Date of Certification	19 January 2021
Expiry Date of Certification	19 January 2026

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆  
ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆  
初級證書 ◆  
ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆



Management Service

# CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH

certifies that

## SIMONA AG

Teichweg 16  
55606 Kirn  
Germany

including the  
sites and scope of application  
see enclosure

has established and applies  
a Quality Management System.

An audit was performed, Order No. **70017955**.

Proof has been furnished that the requirements  
according to

## ISO 9001:2015

are fulfilled.

The certificate is valid from **2020-12-22** until **2023-12-21**.

Certificate Registration No.: **12 100 3169 TMS**.

Product Compliance Management  
Munich, 2020-12-17



Page 1 of 2

The product schedule for this certification consists of 26 pages. A copy may be obtained directly from Plasson or WSAA.

ISO TYPE 5

# CERTIFICATE OF CONFORMITY



*ApprovalMark International* hereby grants:

**PLASSON AUSTRALIA PTY LTD**  
Green Central, 61 Dunning Ave  
Rosebery, NSW 2018  
AUSTRALIA

**ISO Type 5 Certificate of Conformity**  
Evaluated to:

**AS/NZS 4129:2020 – Fittings for Polyethylene (PE) pipes for pressure applications**

The ISO Type 5 License shall comply with all the terms and conditions as stipulated by the governance of the operating rules of the ISO Type 5 Scheme and shall comply with the standard requirements at all times including when the standard is amended. The ISO Type 5 License only covers the product which is identified in the attached product schedule.

**Certificate No. AMI 74596**

**Issued:** 19<sup>th</sup> January 2021      **Original Issue:** 8<sup>th</sup> January 2016  
**Expires:** 19<sup>th</sup> January 2026



**John PRASAD**  
**Director**  
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**Registered by:** ApprovalMark International Pty Ltd (ABN 69 143 259 974) Unit 20, 33 Holbeche Road, Arndell Park NSW 2148 Australia. The assessment was carried with appropriate skill and assessment by ApprovalMark International Pty Ltd; however it will only accept its responsibility for proven negligence. The certificate remains the property of ApprovalMark International Pty Ltd.

ApprovalMark™



## **APPENDIX C - SUPPLIER CONTACTS**

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