

WSAA PRODUCT APPRAISAL CERTIFICATE

Wenac Industries Pty Ltd Detectable and Non-detectable Underground Marking Tape

This appraisal applies to a range of detectable and non-detectable underground marking tapes. The non-detectable tapes are manufactured to comply with AS/NZS 2648.1:2005 *Underground marking tape - Non-detectable*, as required by WSA PS 319 *Marking Tape, Non-detectable*. As AS/NZS 2648.1 does not include detectable marker tapes, WSAA Specification WSA PS 318 *Marking Tape, Detectable* is used to evaluate and appraise those products.

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

Product Category	Underground Marking Tapes
PA Number:	PA 1902
Supplier	Wenac Industries Pty Ltd
Brand	Wenac
Standards	AS/NZS 2648.1:2005 <i>Underground marking tape - Non-detectable</i>
WSAA Product Specification	WSA PS 318 <i>Marking Tape, Detectable</i> WSA PS 319 <i>Marking Tape, Non-detectable</i>
Other Specifications	
Issue date	13 March 2019
Expiry date	14 March 2024
Recommendations	It is recommended that WSAA members accept or authorise Wenac detectable and non-detectable underground marking tape, as detailed in this report, for use in water supply mains installation, provided installation is in accordance with relevant WSAA Codes and the manufacturer's requirements.
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.

From time to time WSAA and the other Publishers may receive notice of allegations that the importation, manufacture, sale or use of the Product infringes intellectual property rights or other proprietary rights. WSAA's policy is to not refer to such allegations in its Certificate or take any other steps to put Recipients on notice of such allegations. If, however, WSAA becomes aware that the allegations have been admitted or proved in Court, then WSAA may, at its discretion, take such steps as it considers appropriate. As such, Recipients acknowledge, agree and accept that WSAA may have information in its possession about intellectual property rights infringement allegations or other infringement allegations in relation to the Product which are not referred to or disclosed in this Certificate and which are not otherwise communicated to Recipients.

1.2.3. Need for independent assessment

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.

APPENDIX A - 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.

WENAC INDUSTRIES UNDERGROUND MARKING TAPE DETECTABLE AND NON-DETECTABLE

The marking tapes are manufactured from 0.11mm thick polyethylene. The detectable tape has an embedded Grade 316 stainless steel wire, 0.7mm diameter.

The tapes are 100mm wide and are available in rolls of 250 m length. The height of the letters is 50mm.

The following warnings are available on both detectable and non-detectable tapes:

- (a) Blue background: CAUTION: DRINKING WATER MAIN BURIED BELOW
- (b) Purple background: CAUTION: RECYCLED WATER MAIN BURIED BELOW

The text is repeated at 800mm intervals.



FIGURE 1 DETECTABLE TAPE



FIGURE 2 TAPE LETTERING