

Residential wastewater treatment systems

NSF International Standard/
American National Standard

NSF/ANSI 40 – 2000



NSF International, an independent, not-for-profit organization, is dedicated to public health, safety and protection of the environment by developing standards, by providing education and by providing superior third-party conformity assessment services while representing the interest of all stakeholders.

*This Standard is subject to revision.
Contact NSF to confirm this revision is current.*

Users of this Standard may request clarifications and interpretations, or propose revisions by contacting:

Chair, Joint Committee on Wastewater Technology
c/o NSF International
789 North Dixboro Road, P.O. Box 130140
Ann Arbor, Michigan 48113-0140 USA
Phone: (734) 769-8010 Telex: 753215 NSF INTL
FAX: (734) 769-0109 E-mail: info@nsf.org
Web: <http://www.nsf.org>

NSF International Standard/
American National Standard
for Wastewater Technology —

Residential wastewater treatment systems

Standard Developer

NSF International

Approved July 12, 2000

NSF International Board of Directors

Designated as an ANSI Standard

July 12, 2000

American National Standards Institute

Prepared by
The NSF Joint Committee on Wastewater Technology

Recommended for Adoption by
The NSF Council of Public Health Consultants

Adopted by
The NSF Board of Directors
November 1970

Revised November 1978
Revised May 1983
Revised 1990
Revised May 1996
Revised January 1999
Revised July 2000

Published by

NSF International
PO Box 130140, Ann Arbor, Michigan 48113-0140, USA

For ordering copies or for making inquiries with regard to this Standard, please reference the designation "NSF/ANSI 40 – 2000."

Copyright 2000 NSF International
Previous Editions, © 1999, 1996, 1990, 1983, 1978, 1970

Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from NSF International.

Printed in the United States of America.

Disclaimers¹

NSF, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of NSF represent its professional judgment. NSF shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. NSF shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard.

NSF Standards provide basic criteria to promote sanitation and protection of the public health. Provisions for mechanical and electrical safety have not been included in this Standard because governmental agencies or other national standards-setting organizations provide safety requirement.

Participation in NSF Standards development activities by regulatory agency representatives (federal, local, state) shall not constitute their agency's endorsement of NSF or any of its Standards.

Preference is given to the use of performance criteria measurable by examination or testing in NSF Standards development when such performance criteria may reasonably be used in lieu of design, materials, or construction criteria.

The illustrations, if provided, are intended to assist in understanding their adjacent standard requirements. However, the illustrations may not include **all** requirements for a specific product or unit, nor do they show the only method of fabricating such arrangements. Such partial drawings shall not be used to justify improper or incomplete design and construction.

Unless otherwise referenced, the annexes are not considered an integral part of NSF Standards. The annexes are provided as general guidelines to the manufacturer, regulatory agency, user, or certifying organization.

¹ The information contained in this Disclaimer is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Disclaimer may contain material that has not been subjected to public review of a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

This page is intentionally blank.

Contents

Foreword	vii
1 General	1
1.1 Purpose	1
1.2 Scope	1
1.3 Alternate materials, design, and construction	1
1.4 Performance classification	1
2 Normative references	1
3 Definitions	2
4 Materials	2
4.1 Interior surfaces	2
4.2 Exterior surfaces	2
4.3 Welding	2
4.4 Dissimilar metals	3
5 Design and construction	3
5.1 Exposed surfaces	3
5.2 Structural integrity	3
5.3 Infiltration and exfiltration resistance	3
5.4 Noise	3
5.5 Mechanical components	3
5.6 Electrical components	3
5.7 Access ports	3
5.8 Failure sensing and signaling equipment	4
5.9 Flow design	4
5.10 Dataplate and service label	4
5.11 Limited warranty	4
6 Product literature	4
6.1 Owner's manual	4
6.2 Additional product literature	5
7 Other documentation	6
8 Service-related obligations	6
8.1 Initial service policy	6
8.2 Extended service policy	6
8.3 Stand-by parts	6
8.4 Availability of service	7
9 Performance testing and evaluation	7
9.1 Preparations for testing and evaluation	7
9.2 Testing and evaluation conditions, hydraulic loading, and schedules	7
9.3 Sample collection	8
9.4 Analytical descriptions	9
9.5 Criteria	9
10 Final report	10

Annexes

A	Limited warranty.....	A1
B	Key elements of a certification program for residential wastewater treatment systems	B1
B.1	Marking the product.....	B1
B.2	Listing certified companies	B1
B.3	Annual audits	B1
B.4	Testing	B1
B.5	Corrective action.....	B1
B.6	Enforcement	B1
B.7	Administrative review	B1
B.8	Appeals.....	B2
B.9	Complaints.....	B2
B.10	Advertising	B2
B.11	Records	B2
B.12	Public notice	B2
B.13	Confidentiality	B2