



SLOVENSKI STANDARD

SIST EN 274-2:2002

01-december-2002

BUXca Yý U

SIST EN 274:1998

SIST EN 329:1998

SIST EN 411:1998

Fazonski deli za odpadno vodo za sanitarne naprave – 2. del: Preskusne metode

Waste fittings for sanitary appliances - Part 2: Test methods

Ablaufgarnituren für Sanitärausstattungsgegenstände - Teil 2: Prüfverfahren

Dispositifs de vidage des appareils sanitaires - Partie 2: Méthodes d'essai

<https://standards.iteh.ai/catalog/standards/sist/331702a6-419c-4230-bd27-81ebba634cdb/sist-en-274-2-2002>

Ta slovenski standard je istoveten z: **EN 274-2:2002**

ICS:

91.140.70

Sanitarne naprave

Sanitary installations

SIST EN 274-2:2002

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 274-2:2002

<https://standards.iteh.ai/catalog/standards/sist/331702a6-419c-4230-bd27-81ebba634cdb/sist-en-274-2-2002>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 274-2

January 2002

ICS 91.140.70

Supersedes together with EN 274-1:2002 and EN 274-3:2002 the EN 274:1992, EN 329:1994 and EN 411:1995

English version

Waste fittings for sanitary appliances - Part 2: Test methods

Dispositifs de vidage des appareils sanitaires - Partie 2:
Méthodes d'essai

Ablaufgarnituren für Sanitärausstattungsgegenstände -
Teil 2: Prüfverfahren

This European Standard was approved by CEN on 23 December 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

iTeh STANDARD PREVIEW
(standards.itih.ai)
<https://standards.itih.ai/catalog/standards/sist/331702a6-419c-4230-bd27-81ebba634cdb/sist-en-274-2-2002>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

	page
Foreword	3
1 Scope	3
2 Normative references	3
3 Temperature cycling test	3
4 Dimensional requirements	4
5 Hydraulic requirements	5
5.1 Measurement of flow rates	5
5.2 Flow rate of waste outlet	6
5.3 Flow rate of waste outlet with a trap	6
5.4 Flow rate of trap	8
5.5 Flow rate of overflow	9
6 Leaktightness	10
6.1 Leaktightness of waste outlet with plug or flap	10
6.2 Leaktightness of traps	10

ITeH STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 274-2:2002

<https://standards.iteh.ai/catalog/standards/sist/331702a6-419c-4230-bd27-81ebba634cdb/sist-en-274-2-2002>

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 165, "Wastewater engineering", the secretariat is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2002, and conflicting national standards shall be withdrawn at the latest by July 2002.

Together with Parts 1 and 3 of this standard this European Standard supersedes EN 274:1992, EN 329:1994 and EN 411:1995.

The other parts of the European Standard contain the necessary statements on dimensional and hydraulic requirements and quality control of waste fittings for sanitary appliances.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

1 Scope

This standard specifies test methods for the requirements of waste outlets, traps and overflows in accordance with EN 274-1:2002.

[SIST EN 274-2:2002](https://standards.iteh.ai/catalog/standards/sist/331702a6-419c-4230-bd27-81c6ba634fdb/sist-en-274-2-2002)

NOTE All figures in this standard are diagrammatic only.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 274-1:2002, *Waste fittings for sanitary appliances – Part 1: Requirements*.

3 Temperature cycling test

Waste outlets and traps shall be subjected to the passage of hot and cold water according to the following schedule for 5 cycles:

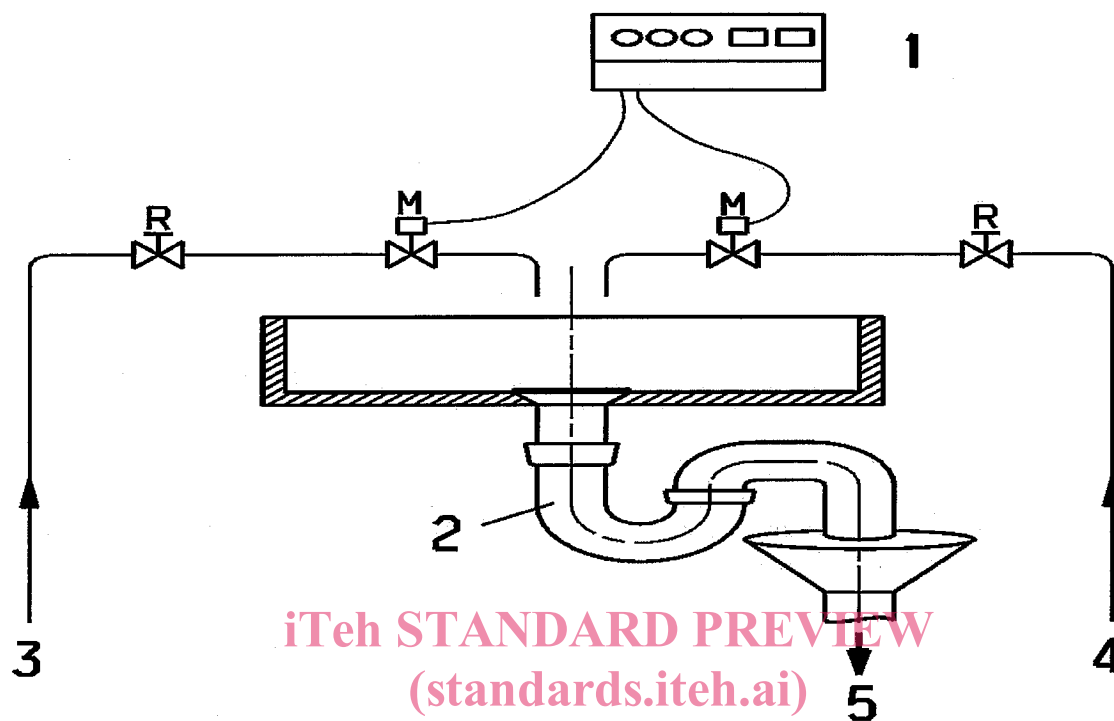
- X l/s of water of a temperature of 95^{+2}_{-2} °C over a period of 15 min at a constant flowrate and
- X l/s of water of a temperature of (20 ± 5) °C over a period of 10 min at a constant flowrate.

The value of X is the minimum flow rate as given in Table 3 of EN 274-1:2002, but with a maximum of 0,5 l/s.

The water shall enter the waste outlet having the required temperature.

A drainage period between cycles of up to 5 s is permissible.

The test arrangement is shown in Figure 1.



SIST EN 274-2:2002
<https://standards.iteh.ai/catalog/standards/sist/331702a6-419c-4230-bd27-81ebba634cdb/sist-en-274-2-2002>

Key

- 1 Control unit
- 2 Waste fitting
- 3 Hot water supply
- 4 Cold water supply
- 5 Discharge

M = solenoid valve
 R = regulating valve

Figure 1 — Test arrangement for temperature cycling test

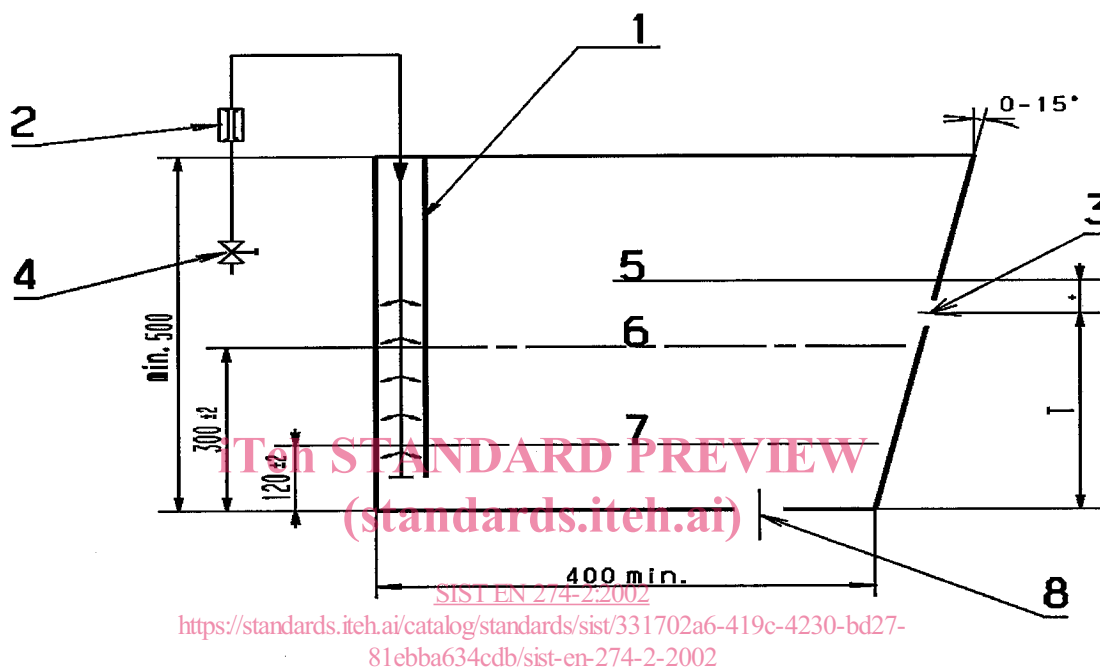
4 Dimensional requirements

The dimensions of waste outlets and traps and the depth of water seal shall be measured using conventional methods.

5 Hydraulic requirements

5.1 Measurement of flow rates

Dimensions in millimetres



Key

- 1 Device to prevent turbulence
- 2 Flowmeter
- 3 Overflow hole
- 4 Regulating valve
- 5 Overflow level
- 6 Level U
- 7 Level C
- 8 Waste outlet hole

Figure 2 — Test tank for measuring flow rates

- The waste fitting to be tested shall be fitted to the test tank, which is preferably made of transparent material (see Figure 2). If in the case of waste outlets fitted with:
 - a plug, it is removed;
 - a flap, it is adjusted to obtain the maximum lift, however it has to be tight when closed.
- Fill the test tank with water up to the test level as follows:
 - test level C = (120 ± 2) mm for waste outlets and traps for basins, bidets, shower trays and kitchen sinks;

EN 274-2:2002 (E)

- test level U = (300 ± 2) mm for waste outlets and traps for baths.

The outlet is blocked by hand until the test level is reached.

- Stabilize the test level by adjusting the water inflow by means of a regulating valve.
- The flow rate of the waste outlets and traps is the flow rate indicated by the flowmeter, when the test water level C or U is stabilized.

5.2 Flow rate of waste outlet

The flow rate of waste outlet is tested using a flow stabilizing tube as shown in Figure 3. The flow rate stabilization tube has an internal diameter of

- 30 mm for waste outlets for basins and bidets;
- 36 mm for waste outlets for shower trays, baths and kitchen sinks.

Proceed in accordance with 5.1.

Dimensions in millimetres

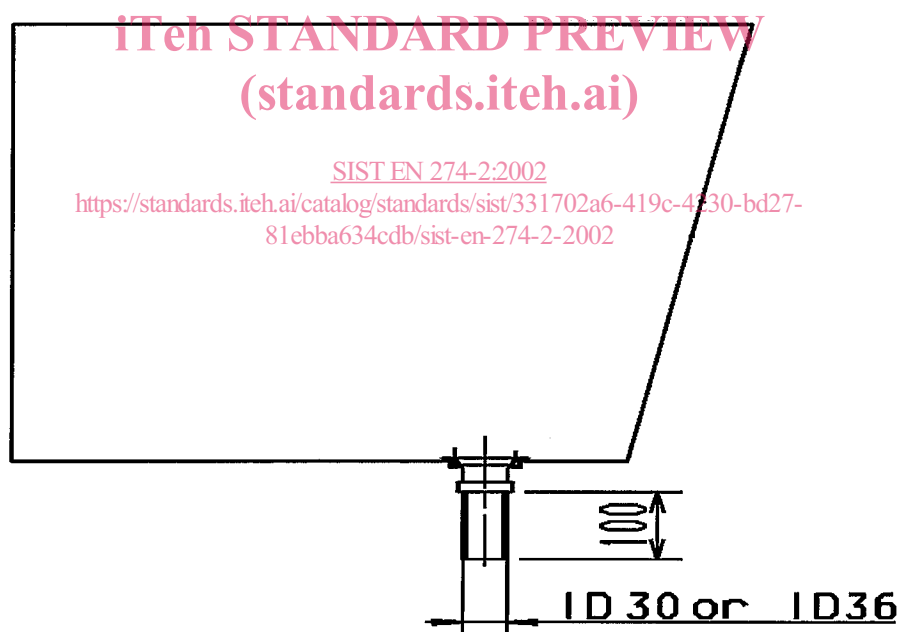


Figure 3 — Arrangement for measuring flow rate of waste outlet

5.3 Flow rate of waste outlet with a trap

The flow rate of waste outlet with a trap is tested with the waste outlet and trap fixed as shown in Figure 4. If an overflow is fitted, it shall be open.

When a waste fitting with a horizontal outlet does not have a straight part of a minimum length of 50 mm, a horizontal stabilizing tube, 300 mm long, shall be attached to it. The diameter of the stabilizing tube shall correspond to that of the waste fitting outlet.

In the case of waste fitting with adjustable outlet angles the outlet pipe shall be positioned in a horizontal plane. Proceed in accordance with 5.1.

Dimensions in millimetres

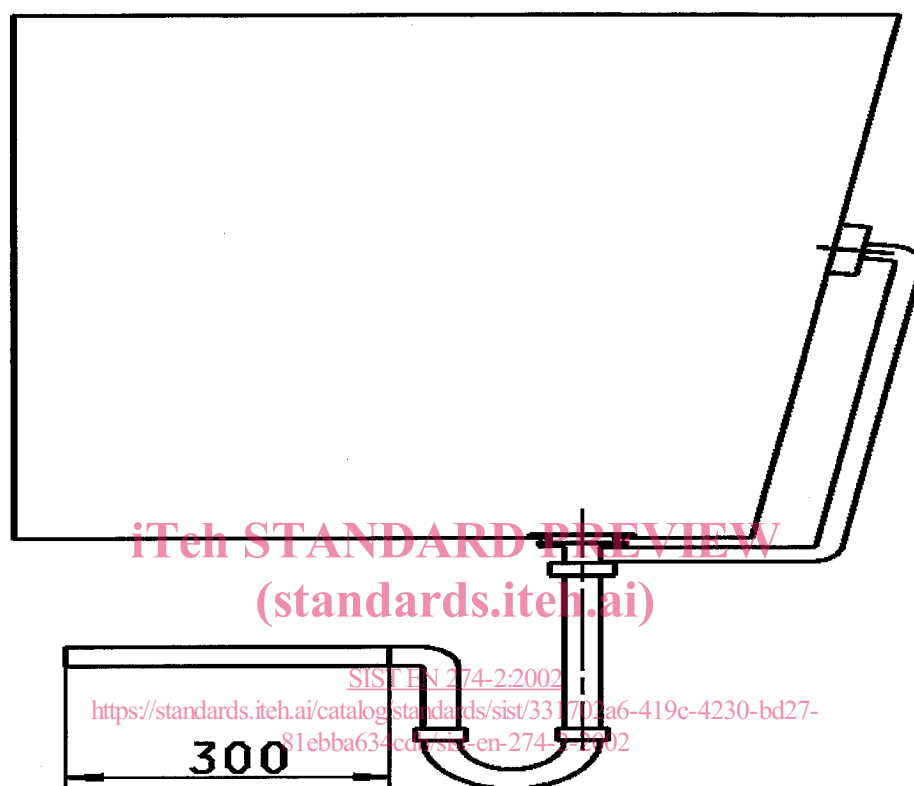


Figure 4 — Arrangement for measuring flow rate of waste outlet with a trap

In the case of a waste outlet with integral trap for shower trays with a diameter G of 87 mm (see Table 1 of EN 274-1:2002) use the test arrangement as given in Figure 5 and proceed as follows:

- Adjust the fitting to the minimum clamping height.
- Locate the waste fitting in the test tank.
- Fill the test tank up to measuring level. Then adjust the water flow to give a constant test level of (15 ± 1) mm above the measuring level.
- When measuring level is by adjusting the flow rate stabilized, the flow rate of the waste fitting is the flow rate indicated by the flowmeter.