



SLOVENSKI STANDARD
SIST EN 1124-2:2000

01-november-2000

Vzdolžno varjene nerjavne jeklene cevi in spojniki z obojko za sisteme za odpadno vodo - 2. del: Sistem S - Mere

Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems - Part 2: System S; Dimensions

Rohre und Formstücke aus längsnahtgeschweißtem, nichtrostendem Stahlrohr mit Steckmuffe für Abwasserleitungen - Teil 2: System S; Maße

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Tubes et raccords de tube soudés longitudinalement en acier inoxydable, a manchon enfichable pour réseaux d'assainissement - Partie 2: Systeme S; Dimensions

<https://standards.iteh.ai/catalog/standards/sist/966ecbc6-1056-44b7-9190->

Ta slovenski standard je istoveten z: EN 1124-2:1999

ICS:

23.040.10	Železne in jeklene cevi	Iron and steel pipes
93.030	Zunanji sistemi za odpadno vodo	External sewage systems

SIST EN 1124-2:2000

en

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EUROPEAN STANDARD

EN 1124-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1999

ICS 23.040.10; 23.040.40; 23.040.60

Descriptors: water removal, sewage, water pipelines, non-pressure pipes, steel tubes, pipe fittings, stainless steels, pipe sockets, seals: stoppers, dimensions, dimensional tolerances

English version

Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems - Part 2: System S; Dimensions

Tubes et raccords de tube soudés longitudinalement en acier inoxydable, à manchon enfichable pour réseaux d'assainissement - Partie 2: Système S; Dimensions

Rohre und Formstücke aus längsnahtgeschweißtem, nichtrostendem Stahlrohr mit Steckmuffe für Abwasserleitungen - Teil 2: System S; Maße

This European Standard was approved by CEN on 16 December 1998.

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 Central Secretariat 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 Central Secretariat 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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Contents

	Page
Foreword	3
1 Scope	3
2 Normative references	3
3 Definitions	3
4 Symbols	3
5 Dimensions	4
5.1 General and tolerances	4
5.2 Socket	5
5.3 Pipes – Shape B 1	6
5.4 Bends	7
5.4.1 Bends – Shape C 2	7
5.4.2 Bend with stilling section – Shape C 3	8
5.5 Branches	9
5.5.1 Single branch – Shape D 1 and reducing single branch – Shape D 11	9
5.5.2 Double branch – Shape D 2 and reducing double branch – Shape D 21	10
5.5.3 Angular branch – Shape D 3 and reducing angular branch – Shape D 31	11
5.6 Transition pipe – Shape F 1	12
5.7 Double socket – Shape F 4	13
5.8 Insertion coupling with long socket – Shape F 5	13
5.9 Sliding ring-seal coupling – Shape F 41	14
5.10 Trap – Shape G 1	15
5.11 Access pipes	16
5.11.1 Access pipe – Shape H 1	16
5.11.2 Rear access branch – Shape H 5	17
5.12 Other fittings	17
6 Socket plug – Shape K 10	18

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 165 "Waste water engineering", the secretariat of which 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 1999, and conflicting national standards shall be withdrawn at the latest by July 1999.

Part 1 of the European Standard for longitudinally welded stainless steel pipes contains requirements, testing and quality control of components covered by all parts of EN 1124. EN 1124-3 contains dimensions for System X.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard applies to pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems.

It specifies dimensions and tolerances for pipes, fittings and pipe connectors and establishes a system of designations for the different pipe and fitting types that conform to the stated requirements.

This standard is only valid in connection with EN 1124-1.

This standard does not apply to the marking of products. EN 1124-1 applies to the marking.

2 Normative references

This European Standard incorporates by dated or undated references, 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.

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EN 476 <https://standards.iteh.ai/catalog/standards/sist/966ecbc6-1056-44b7-9190-c029-1bc4bc0a3511/EN-476-2000>
General requirements for components used in discharge pipes, drains and sewers for gravity systems

EN 1124-1
Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems - Part 1: Requirements, testing, quality control

3 Definitions

For the purposes of this standard, the definitions of EN 1124-1 apply.

4 Symbols

DN/OD	Nominal size with regard to the outside diameter according to EN 476
D	Diameter
t	Socket construction depths
s	Wall thickness
L	Effective length
l	Construction length
r	Radius
α	Angle
e	Off-set dimension (shift)
t_s	Least insertion depth

5 Dimensions

5.1 General and tolerances

The figures in this standard are simplified drawings. The dimensions given shall be followed.

Where no dimensions are given in this standard, tolerances for linear dimensions shall be followed according to table 1, tolerances for radii shall be followed according to table 2, and tolerances for angular dimensions referring to the smaller side length shall be followed according to table 3.

Table 1

Dimensions in millimetres

Dimensional range	Tolerances for linear dimensions
from 0 up to 300	± 5
more than 300	± 8

Table 2

Dimensions in millimetres

Dimensional range	Tolerances for radii
more than 26 upto 181	± 3
more than 181 upto 378	± 4
more than 378 upto 457	± 5

Table 3

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Side length (referring to the smaller side length) millimetres	Tolerances for angles degrees
more than 10 upto 120	± 3
more than 120 upto 400	± 2
more than 400	$\pm 1,5$

5.2 Sockets

The socket dimensions according to figure 1 shall conform to table 4.

Details not specified shall be chosen appropriately.

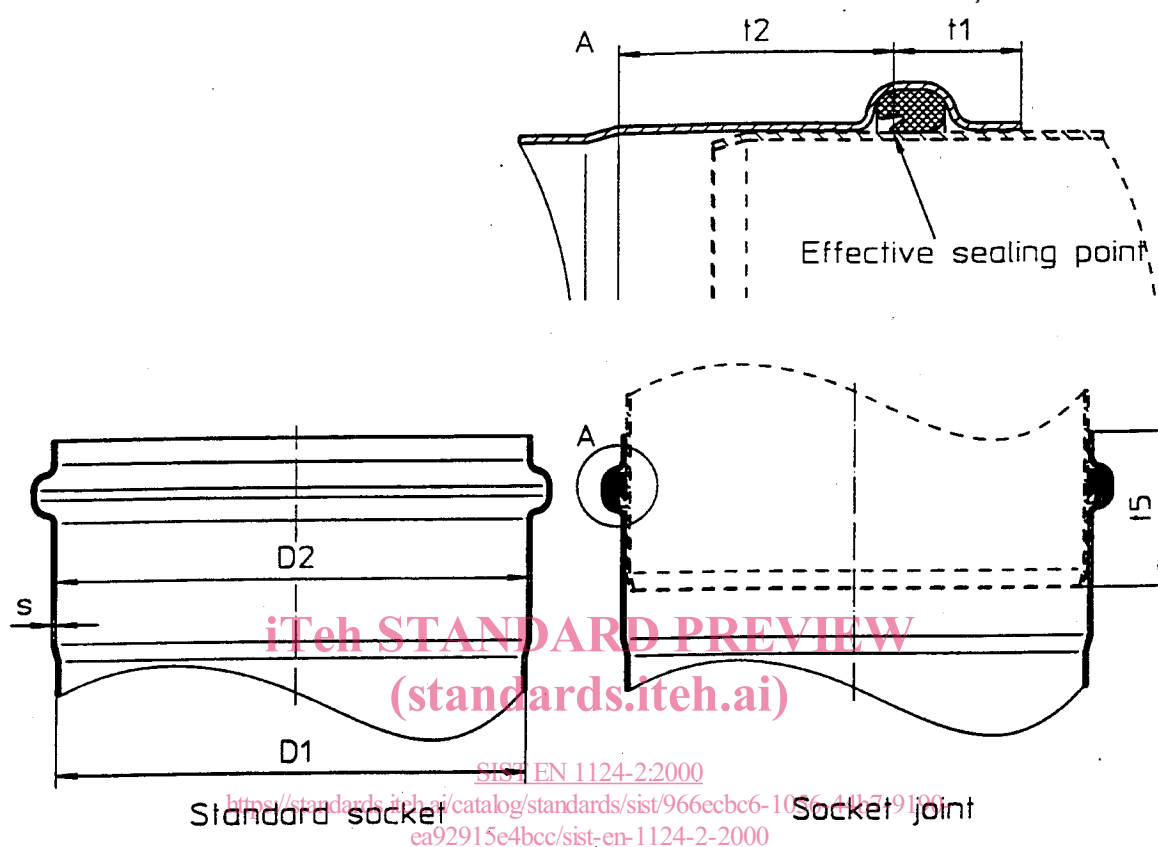


Figure 1: Socket types

Table 4

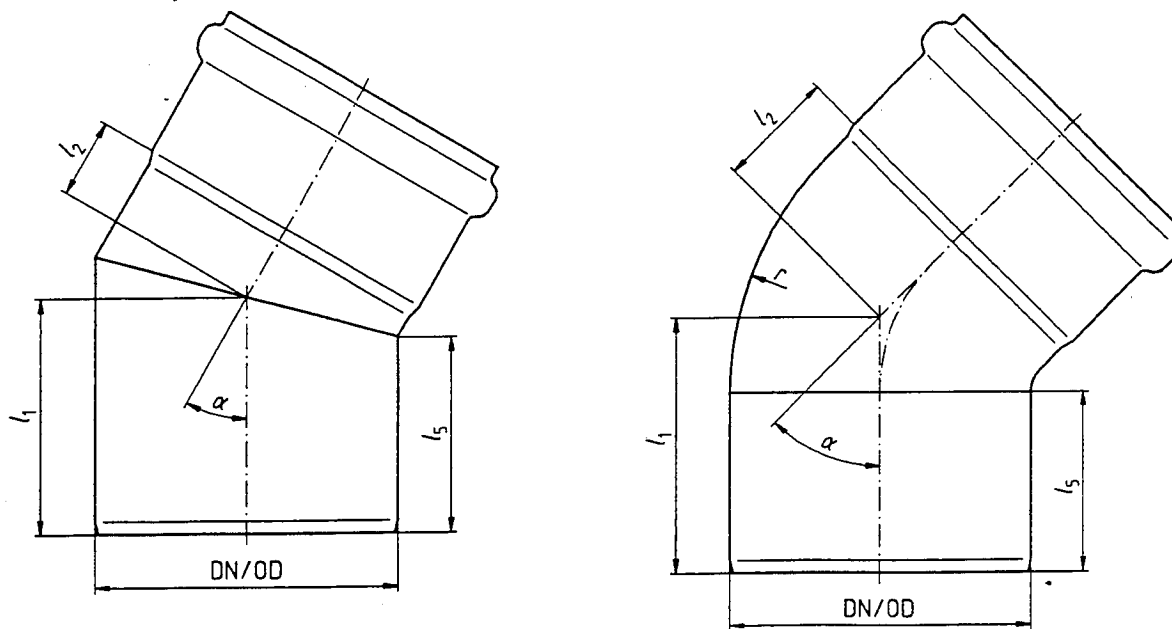
Dimensions in millimetres

Nominal size DN/OD	Dimensions and tolerances					
	D_1	D_2	s	t_1 max	t_2 min	$t_5^{1)}$
50	$50^{+0,2}_0$	$50,5^{+0,6}_0$	$1,00 \pm 0,2$	18	20	30
75	$75^{+0,3}_0$	$75,6^{+0,6}_0$	$1,00 \pm 0,2$	20	25	35
110	$110^{+0,3}_0$	$110,6^{+0,7}_0$	$1,00 \pm 0,2$	26	32	40
160	$160^{+0,4}_0$	$160,7^{+0,8}_0$	$1,25 \pm 0,2$	32	42	50

¹⁾ installation instructions only (necessary least insertion depth for tightness of pipe connection)

5.4 Bends

5.4.1 Bends – Shape C 2



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$\alpha = 15^\circ$ and 30°

$\alpha = 45^\circ$ and $87,5^\circ$

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Figure 3: Shape C 2
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Designation of a bend (C 2) of nominal size DN/OD 110 and $\alpha = 45^\circ$

Bend EN 1124-2 – C 2 – 110 – 45

Table 6

Dimensions in millimetres

Nominal size DN/OD	$\alpha = 15^\circ$			$\alpha = 30^\circ$			$\alpha = 45^\circ$				$\alpha = 87,5^\circ$			
	l_1	l_2	l_5	l_1	l_2	l_5	l_1	l_2	l_5	r	l_1	l_2	l_5	r
50	54	12	$\geq t_1 + t_2$	57	16	$\geq t_1 + t_2$	60	26	$\geq t_1 + t_2$	$\geq D_1$	86	40	$\geq t_1 + t_2$	$\geq D_1$
75	66	16		71	21		76	33			107	53		
110	79	22		85	28		93	43			134	73		
160	99	29		110	40		131	55			181	105		

5.4.2 Bend with stilling section – Shape C 3

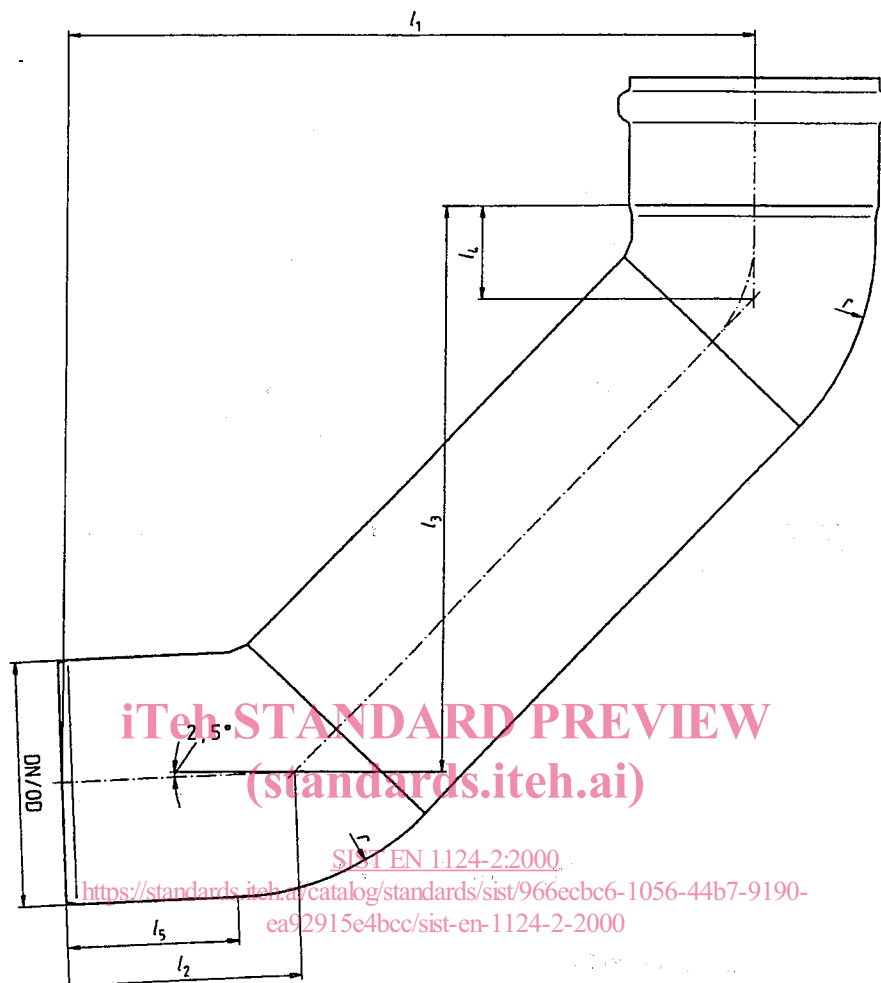


Figure 4: Shape C 3

Designation of a bend with stilling section (C 3) of nominal size DN/OD 110:

Bend EN 1124-2 – C 3 – 110

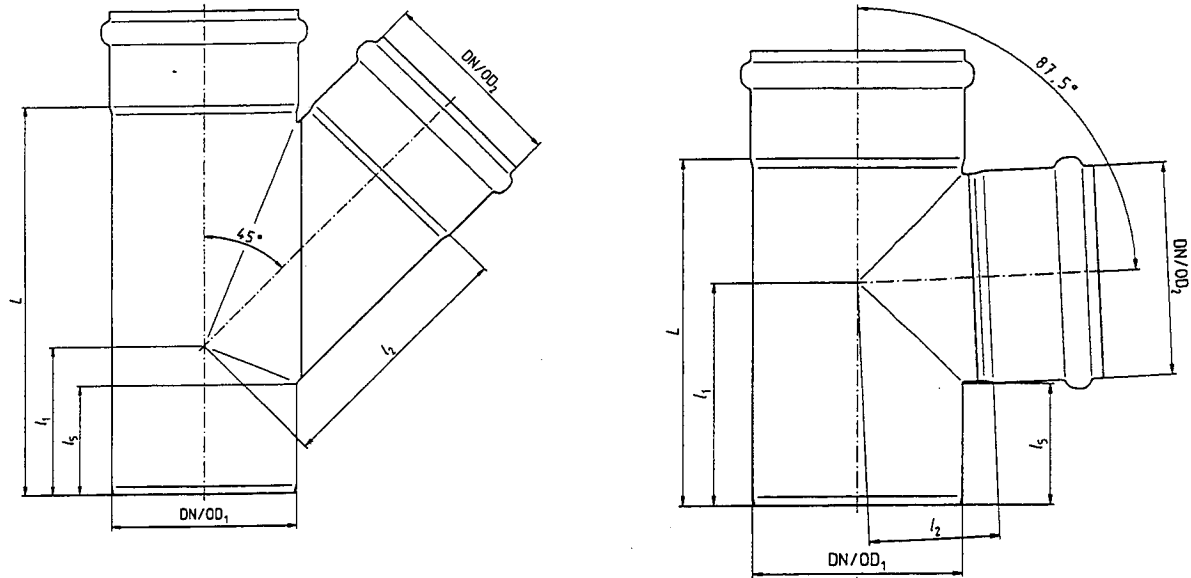
Table 7

Dimensions in millimetres

Nominal size DN/OD	l_1	l_2	l_3	l_4	l_5	r
110	307	103	255	42	$\geq l_1 + l_2$	$\geq D_1$
160	354	130	288	54		

5.5 Branches

5.5.1 Single branch – Shape D 1 and reducing single branch – Shape D 11



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$\alpha = 45^\circ$

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$\alpha = 87,5^\circ$

Figure 5: Shape D 1

Designation of a single branch (D 1) of nominal size DN/OD 110 and $\alpha = 87,5^\circ$:

Branch EN 1124-2 – D 1 – 110 – 87,5

Designation of a reducing single branch (D 11) of nominal size DN/OD 1 = 110, nominal size DN/OD 2 = 50 and $\alpha = 45^\circ$:

Branch EN 1124-2 – D 11 – 110 – 50 – 45

Table 8

Dimensions in millimetres

Nominal sizes		$\alpha = 87,5^\circ$				$\alpha = 45^\circ$			
DN/OD 1	DN/OD 2	L	l_1	l_2	l_5	L	l_1	l_2	l_5
50	50	106	71	36	$\geq l_1 + l_2$	128	57	76	$\geq l_1 + l_2$
75	50	139	98	49		144	56	94	
	75	139	90	52		179	74	110	
110	50	132	93	66		147	42	119	
	75	152	104	69		182	60	135	
	110	183	117	69		233	88	149	
160	110	236	152	94		258	80	186	
	160	288	184	104		328	115	222	