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SWEDISH STANDARDS INSTITUTE

Avlopp – Rör och rördelar av rostfritt stål, längssvetsat rör med insticksmuff –
Del 2: System S, former och dimensioner

Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems –
Part 2: System S, forms and dimensions

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Europastandarden EN 1124-2:2014 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 1124-2:2014.

Denna standard ersätter SS-EN 1124-2:2007, utgåva 2.

The European Standard EN 1124-2:2014 has the status of a Swedish Standard. This document contains the official version of EN 1124-2:2014.

This standard supersedes the Swedish Standard SS-EN 1124-2:2007, edition 2.

Upplysningar om sakinnehållet i standarden lämnas av SIS, Swedish Standards Institute, telefon 08-555 520 00. Standarder kan beställas hos SIS Förlag AB som även lämnar allmänna upplysningar om svensk och utländsk standard.

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Denna standard är framtagen av kommittén för Avloppsteknik, SIS/TK 198/AG 165.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1124-2

June 2014

ICS 23.040.10; 23.040.40

Supersedes EN 1124-2:2007

English Version

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

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

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

This European Standard was approved by CEN on 17 April 2014.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 1124-2:2014 E

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Foreword

This document (EN 1124-2:2014) 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 December 2014, and conflicting national standards shall be withdrawn at the latest by December 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1124-2:2007.

In relation to the previous version of the standard, the following main modifications have been made:

a) due to the newest marked developments and new installation methods, several components of system S have been adjusted to these conditions (introduction of new products);

b) dimensional requirements have been extended and specified for compatibility with gravity drainage systems for buildings.

EN 1124, *Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems*, consists of the following parts:

— *Part 1: Requirements, testing, quality control*;

— *Part 2: System S, forms and dimensions*;

— *Part 3: System X – Dimensions*;

— *Part 4: Components for vacuum drainage systems and drainage systems on ships*.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

Pipes and fittings of longitudinally welded, stainless steel pipes with spigot and socket for waste water systems as specified in this part of EN 1124 and EN 1124-3 are used in gravity drainage systems in buildings. For vacuum drainage systems and drainage systems on ships, it was necessary to specify additional requirements and further dimensional specifications for components and joints used in these systems. Components specified in EN 1124-4 are used for vacuum drainage systems and for drainage systems in shipbuilding.

1 Scope

This European Standard applies to pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems and 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 part of EN 1124 is only valid in connection with EN 1124-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1124-1:1999, *Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems - Part 1: Requirements, testing, quality control*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads - Part 1: Dimensions, tolerances and designation (ISO 228-1)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1124-1:1999 apply.

4 Symbols

DN/OD	Nominal size with regard to the outside diameter
d	Diameter
t	Socket construction depths
s	Wall thickness
L	Effective length
l	Construction lengths
r	Radius
α	Angle
e	Off-set dimension (shift)
t_5	Least insertion depth
o	Ovality

5 Dimensions

5.1 General and tolerances

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

Where no tolerances are given in this European Standard, tolerances for linear dimensions shall be followed in accordance with Table 1, tolerances for radii shall be followed in accordance with Table 2 and tolerances for angular dimensions, referring to the smaller side length, shall be followed in accordance with Table 3.

Table 1 — Tolerances for linear dimensions

Dimensions in millimetres

Dimensional range	Tolerances for linear dimensions
0 to 300	±5
> 300	±8

Table 2 — Tolerances for radii

Dimensions in millimetres

Dimensional range	Tolerances for radii
> 26 to 181	±3
> 181 to 378	±4
> 378 to 457	±5

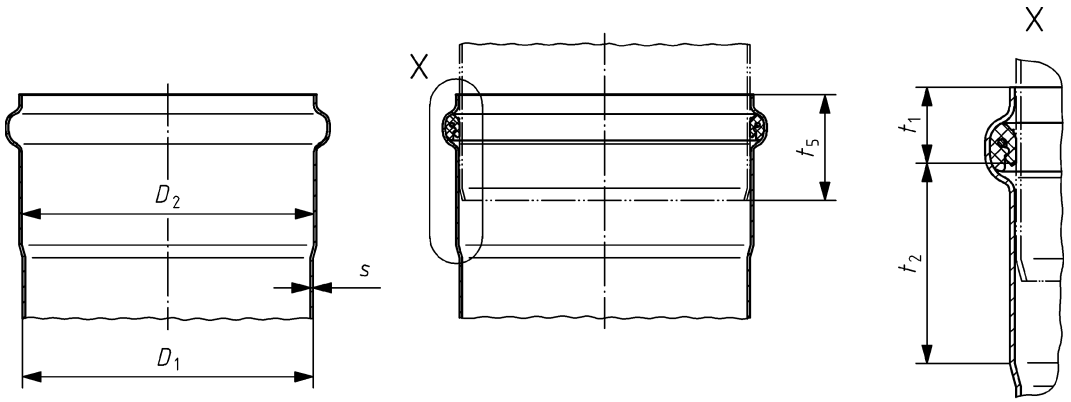
Table 3 — Tolerances for angles

Side length (referring to the smaller side) mm	Tolerances for angles degrees
> 10 to 120	±3
> 120 to 400	±4
> 400	±5

5.2 Sockets

The socket dimensions in accordance with Figure 1 shall conform to Table 4.

Details not specified shall be chosen appropriately.



a) b)

Key

a standard socket

b socket joint

X effective sealing point

Figure 1 — Socket types

Table 4 — Dimensions and tolerances for sockets

Dimensions in millimetres

Nominal size DN/OD	Dimensions and tolerances						
	D_1	D_2	o	s	t_1 max	t_2 max	t_5[a]
40	$40\ ^{+0,2}_{0}$	$40,7\ ^{+0,5}_{0}$	< 2 % of DN	1,00 ± 0,2	18	18	30
50	$50\ ^{+0,2}_{0}$	$50,5\ ^{+0,6}_{0}$				20	
75	$75\ ^{+0,3}_{0}$	$75,6\ ^{+0,6}_{0}$			20	25	35
82	$82,4\ ^{+0,3}_{0}$	$83,2\ ^{+0,4}_{0}$				30	
90	$90\ ^{+0,3}_{0}$	$90,8\ ^{+0,5}_{0}$			24	30	40
110	$110\ ^{+0,3}_{0}$	$110,6\ ^{+0,7}_{0}$			26	32	
125	$125\ ^{+0,3}_{0}$	$125,8\ ^{+0,6}_{0}$				35	45
160	$160\ ^{+0,4}_{0}$	$160,7\ ^{+0,8}_{0}$		1,25 ± 0,2	32	42	50
200	$200\ ^{+0,4}_{0}$	$200,8\ ^{+0,8}_{0}$		1,50 ± 0,3	40	50	55
250	$250\ ^{+0,5}_{0}$	$251,0\ ^{+0,8}_{0}$		$1,50\ ^{+0,8}_{0,3}$	45	55	65
315	$315\ ^{+0,6}_{0}$	$316,2\ ^{+0,8}_{0}$		$1,50\ ^{+0,8}_{0,3}$		62	

[a] Installation instructions only (necessary least insertion depth for tightness of pipe connection).

5.3 Pipes – Shape B 1

The effective length of pipes shall conform to Table 5.

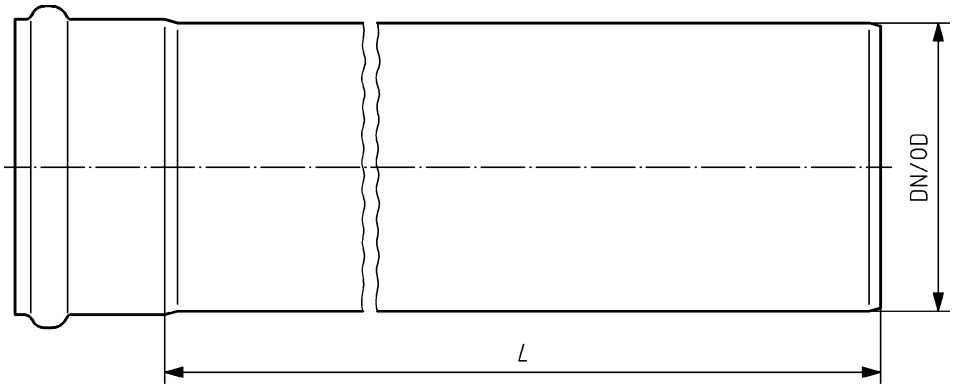


Figure 2 — Shape B 1

Designation of a drainage steel pipe (B 1) of nominal size DN/OD 110 with an effective length L = 1 000 mm:

Pipe EN 1124-2 — B 1 – 110 – 1000